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PF-0633 USN

<110> INCYTE CORPORATION
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LU, Dyung Aina M.

<120> MEMBRANE TRANSPORT PROTEINS

<130> PF-0633 USN

<140> To Be Assigned

<141> Herewith

<160> 42

<170> PERL Program

<210> 1

<211> 384

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 961344CD1

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Ser	Ser	His	Leu	Val	Ser	Arg	Thr	Gln	Asp	Ile	His	Ile	Phe	Arg
				20					25					30
Gln	Val	Thr	Ser	Arg	Gly	Glu	Ala	His	Leu	Glu	Leu	Asn	Ala	Phe
				35					40					45
Arg	Arg	Lys	His	Asp	Cys	Ala	Leu	Val	Ile	Ser	Gly	Asp	Ser	Leu
				50					55					60
Glu	Val	Cys	Leu	Lys	Tyr	Tyr	Glu	His	Glu	Phe	Val	Glu	Leu	Ala
				65					70					75
Cys	Gln	Cys	Pro	Ala	Val	Val	Cys	Cys	Arg	Cys	Ser	Pro	Thr	Gln
				80					85					90
Lys	Ala	Arg	Ile	Val	Thr	Leu	Leu	Gln	Gln	His	Thr	Gly	Arg	Arg
				95					100					105
Thr	Cys	Ala	Ile	Gly	Asp	Gly	Gly	Asn	Asp	Val	Ser	Met	Ile	Gln
				110					115					120
Ala	Ala	Asp	Cys	Gly	Ile	Gly	Ile	Glu	Gly	Lys	Glu	Gly	Lys	Gln
				125					130					135
Ala	Ser	Leu	Ala	Ala	Asp	Phe	Ser	Ile	Thr	Gln	Phe	Arg	His	Ile
				140					145					150
Gly	Arg	Leu	Leu	Met	Val	His	Gly	Arg	Asn	Ser	Tyr	Lys	Arg	Ser
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Ala	Ala	Leu	Gly	Gln	Phe	Val	Met	His	Arg	Gly	Leu	Ile	Ile	Ser

[illegible]

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<220>  
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<223> Incyte ID No: 3128782CD1
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Ser Val Pro Thr	Ser Asp Glu Glu Asp	Glu Val Pro Ala Pro	Lys
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Pro Arg Gly Gly	Lys Lys Thr Lys Gly	Gly Asn Val Phe Ala	Ala
125	130		135
Leu Ile Gln Asp	Gln Ser Glu Glu Glu	Glu Glu Glu Lys	His
140	145		150
Pro Pro Lys Pro	Ala Lys Pro Glu Lys	Asn Arg Ile Asn Lys	Ala
155	160		165
Val Ser Glu Glu	Gln Gln Pro Ala Leu	Lys Gly Lys Lys Gly	Lys
170	175		180
Glu Glu Lys Ser	Lys Gly Lys Ala Lys	Pro Gln Asn Lys Phe	Ala
185	190		195
Ala Leu Asp Asn	Glu Glu Glu Asp Lys	Glu Glu Glu Ile Ile	Lys
200	205		210
Glu Lys Glu Pro	Pro Lys Gln Gly Lys	Glu Lys Ala Lys Lys	Ala
215	220		225
Glu Gln Gly Ser	Glu Glu Glu Gly Glu	Gly Glu Glu Glu Glu	Glu
230	235		240
Glu Gly Gly Glu	Ser Lys Ala Asp Asp	Pro Tyr Ala His Leu	Ser
245	250		255
Lys Lys Glu Lys	Lys Lys Leu Lys Lys	Gln Met Glu Tyr Glu	Arg
260	265		270
Gln Val Ala Ser	Leu Lys Ala Ala Asn	Ala Ala Glu Asn Asp	Phe
275	280		285
Ser Val Ser Gln	Ala Glu Met Ser Ser	Arg Gln Ala Met Leu	Glu
290	295		300
Asn Ala Ser Asp	Ile Lys Leu Glu Lys	Phe Ser Ile Ser Ala	His
305	310		315
Gly Lys Glu Leu	Phe Val Asn Ala Asp	Leu Tyr Ile Val Ala	Gly
320	325		330
Arg Arg Tyr Gly	Leu Val Gly Pro Asn	Gly Lys Gly Lys Thr	Thr
335	340		345
Leu Leu Lys His	Ile Ala Asn Arg Ala	Leu Ser Ile Pro Pro	Asn
350	355		360
Ile Asp Val Leu	Leu Cys Glu Gln Glu	Val Val Ala Asp Glu	Thr
365	370		375
Pro Ala Val Gln	Ala Val Leu Arg Ala	Asp Thr Lys Arg Leu	Lys
380	385		390
Leu Leu Glu Glu	Glu Arg Arg Leu Gln	Gly Gln Leu Glu Gln	Gly
395	400		405
Asp Asp Thr Ala	Ala Glu Arg Leu Glu	Lys Val Tyr Glu Glu	Leu
410	415		420
Arg Ala Thr Gly	Ala Ala Ala Ala Glu	Ala Lys Ala Arg Arg	Ile
425	430		435
Leu Ala Gly Leu	Gly Phe Asp Pro Glu	Met Gln Asn Arg Pro	Thr
440	445		450
Gln Lys Phe Ser	Gly Gly Trp Arg Met	Arg Val Ser Leu Ala	Arg
455	460		465
Ala Leu Phe Met	Glu Pro Thr Leu Leu	Met Leu Asp Glu Pro	Thr
470	475		480
Asn His Leu Asp	Leu Asn Ala Val Ile	Trp Leu Asn Asn Tyr	Leu
485	490		495
Gln Gly Trp Arg	Lys Thr Leu Leu Ile	Val Ser His Asp Gln	Gly
500	505		510

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Phe	Leu	Asp	Asp	Val	Cys	Thr	Asp	Ile	Ile	His	Leu	Asp	Ala	Gln	515	520	525
Arg	Leu	His	Tyr	Tyr	Arg	Gly	Asn	Tyr	Met	Thr	Phe	Lys	Lys	Met	530	535	540
Tyr	Gln	Gln	Lys	Gln	Lys	Glu	Leu	Leu	Lys	Gln	Tyr	Glu	Lys	Gln	545	550	555
Glu	Lys	Lys	Leu	Lys	Glu	Leu	Lys	Ala	Gly	Gly	Lys	Ser	Thr	Lys	560	565	570
Gln	Ala	Glu	Lys	Gln	Thr	Lys	Glu	Ala	Leu	Thr	Arg	Lys	Gln	Gln	575	580	585
Lys	Cys	Arg	Arg	Lys	Asn	Gln	Asp	Glu	Glu	Ser	Gln	Glu	Ala	Pro	590	595	600
Glu	Leu	Leu	Lys	Arg	Pro	Lys	Glu	Tyr	Thr	Val	Arg	Phe	Thr	Phe	605	610	615
Pro	Asp	Pro	Pro	Pro	Leu	Ser	Pro	Pro	Val	Leu	Gly	Leu	His	Gly	620	625	630
Val	Thr	Phe	Gly	Tyr	Gln	Gly	Gln	Lys	Pro	Leu	Phe	Lys	Asn	Leu	635	640	645
Asp	Phe	Gly	Ile	Asp	Met	Asp	Ser	Arg	Ile	Cys	Ile	Val	Gly	Pro	650	655	660
Asn	Gly	Val	Gly	Lys	Ser	Thr	Leu	Leu	Leu	Leu	Leu	Thr	Gly	Lys	665	670	675
Leu	Thr	Pro	Thr	His	Gly	Glu	Met	Arg	Lys	Asn	His	Arg	Leu	Lys	680	685	690
Ile	Gly	Phe	Phe	Asn	Gln	Gln	Tyr	Ala	Glu	Gln	Leu	Arg	Met	Glu	695	700	705
Glu	Thr	Pro	Thr	Glu	Tyr	Leu	Gln	Arg	Gly	Phe	Asn	Leu	Pro	Tyr	710	715	720
Gln	Asp	Ala	Arg	Lys	Cys	Leu	Gly	Arg	Phe	Gly	Leu	Glu	Ser	His	725	730	735
Ala	His	Thr	Ile	Gln	Ile	Cys	Lys	Leu	Ser	Gly	Gly	Gln	Lys	Ala	740	745	750
Arg	Val	Val	Phe	Ala	Glu	Leu	Ala	Cys	Arg	Glu	Pro	Asp	Val	Leu	755	760	765
Ile	Leu	Asp	Glu	Pro	Thr	Asn	Asn	Leu	Asp	Ile	Glu	Ser	Ile	Asp	770	775	780
Ala	Leu	Gly	Glu	Ala	Ile	Asn	Glu	Tyr	Lys	Gly	Ala	Val	Ile	Val	785	790	795
Val	Ser	His	Asp	Ala	Arg	Leu	Ile	Thr	Glu	Thr	Asn	Cys	Gln	Leu	800	805	810
Trp	Val	Val	Glu	Glu	Gln	Ser	Val	Ser	Gln	Ile	Asp	Gly	Asp	Phe	815	820	825
Glu	Asp	Tyr	Lys	Arg	Glu	Val	Leu	Glu	Ala	Leu	Gly	Glu	Val	Met	830	835	840
Val	Ser	Arg	Pro	Arg	Glu										845		

<210> 3

<211> 511

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

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<223> Incyte ID No: 1720440CD1

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Lys	Leu	Gly	Val	Glu	Ala	Ala	Leu	Ile	Asn	Thr	Asn	Leu	Arg	Arg
				20					25					30
Asp	Ala	Leu	Leu	His	Cys	Leu	Thr	Thr	Ser	Arg	Ala	Arg	Ala	Leu
				35					40					45
Val	Phe	Gly	Ser	Glu	Met	Ala	Ser	Ala	Ile	Cys	Glu	Val	His	Ala
				50					55					60
Ser	Leu	Asp	Pro	Ser	Leu	Ser	Leu	Phe	Cys	Ser	Gly	Ser	Trp	Glu
				65					70					75
Pro	Gly	Ala	Val	Pro	Pro	Ser	Thr	Glu	His	Leu	Asp	Pro	Leu	Leu
				80					85					90
Lys	Asp	Ala	Pro	Lys	His	Leu	Pro	Ser	Cys	Pro	Asp	Lys	Gly	Phe
				95					100					105
Thr	Asp	Lys	Leu	Phe	Tyr	Ile	Tyr	Thr	Ser	Gly	Thr	Thr	Gly	Leu
				110					115					120
Pro	Lys	Ala	Ala	Ile	Val	Val	His	Ser	Arg	Tyr	Tyr	Arg	Met	Ala
				125					130					135
Ala	Leu	Val	Tyr	Tyr	Gly	Phe	Arg	Met	Arg	Pro	Asn	Asp	Ile	Val
				140					145					150
Tyr	Asp	Cys	Leu	Pro	Leu	Tyr	His	Ser	Ala	Gly	Asn	Ile	Val	Gly
				155					160					165
Ile	Gly	Gln	Cys	Leu	Leu	His	Gly	Met	Thr	Val	Val	Ile	Arg	Lys
				170					175					180
Lys	Phe	Ser	Ala	Ser	Arg	Phe	Trp	Asp	Asp	Cys	Ile	Lys	Tyr	Asn
				185					190					195
Cys	Thr	Ile	Val	Gln	Tyr	Ile	Gly	Glu	Leu	Cys	Arg	Tyr	Leu	Leu
				200					205					210
Asn	Gln	Pro	Pro	Arg	Glu	Ala	Glu	Asn	Gln	His	Gln	Val	Arg	Met
				215					220					225
Ala	Leu	Gly	Asn	Gly	Leu	Arg	Gln	Ser	Ile	Trp	Thr	Asn	Phe	Ser
				230					235					240
Ser	Arg	Phe	His	Ile	Pro	Gln	Val	Ala	Glu	Phe	Tyr	Gly	Ala	Thr
				245					250					255
Glu	Cys	Asn	Cys	Ser	Leu	Gly	Asn	Phe	Asp	Ser	Gln	Val	Gly	Ala
				260					265					270
Cys	Gly	Phe	Asn	Ser	Arg	Ile	Leu	Ser	Ser	Val	Tyr	Pro	Ile	Arg
				275					280					285
Leu	Val	Arg	Val	Asn	Glu	Asp	Thr	Met	Glu	Leu	Ile	Arg	Gly	Pro
				290					295					300
Asp	Gly	Val	Cys	Ile	Pro	Cys	Gln	Pro	Gly	Glu	Pro	Gly	Gln	Leu
				305					310					315
Val	Gly	Arg	Ile	Ile	Gln	Lys	Asp	Pro	Leu	Arg	Arg	Phe	Asp	Gly
				320					325					330
Tyr	Leu	Asn	Gln	Gly	Ala	Asn	Asn	Lys	Lys	Ile	Ala	Lys	Asp	Val
				335					340					345
Phe	Lys	Lys	Gly	Asp	Gln	Ala	Tyr	Leu	Thr	Gly	Asp	Val	Leu	Val
				350					355					360
Met	Asp	Glu	Leu	Gly	Tyr	Leu	Tyr	Phe	Arg	Asp	Arg	Thr	Gly	Asp
				365					370					375
Thr	Phe	Arg	Trp	Lys	Gly	Glu	Asn	Val	Ser	Thr	Thr	Glu	Val	Glu

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	380		385		390
Gly Thr Leu Ser Arg Leu Leu Asp Met		Ala Asp Val Ala Val Tyr			
	395		400		405
Gly Val Glu Val Pro Gly Thr Glu Gly		Arg Ala Gly Met Ala Ala			
	410		415		420
Val Ala Ser Pro Thr Gly Asn Cys Asp		Leu Glu Arg Phe Ala Gln			
	425		430		435
Val Leu Glu Lys Glu Leu Pro Leu Tyr		Ala Arg Pro Ile Phe Leu			
	440		445		450
Arg Leu Leu Pro Glu Leu His Lys Thr		Gly Thr Tyr Lys Phe Gln			
	455		460		465
Lys Thr Glu Leu Arg Lys Glu Gly Phe		Asp Pro Ala Ile Val Lys			
	470		475		480
Asp Pro Leu Phe Tyr Leu Asp Ala Gln		Lys Gly Arg Tyr Val Pro			
	485		490		495
Leu Asp Gln Glu Ala Tyr Ser Arg Ile		Gln Ala Gly Glu Glu Lys			
	500		505		510
Leu					

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2274290CD1

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Pro Gly Arg Leu Leu Pro Pro Leu Arg Phe Gln Thr Phe Ser Ala		
	20	25
Val Arg Tyr Ser Asp Gly Tyr Arg Ser Ser Ser Leu Leu Arg Ala		
	35	40
Val Ala His Leu Arg Ser Gln Leu Trp Ala His Leu Pro Arg Ala		
	50	55
Pro Leu Ala Pro Arg Trp Ser Pro Ser Ala Trp Cys Trp Val Gly		
	65	70
Gly Ala Leu Leu Gly Pro Met Val Leu Ser Lys His Pro His Leu		
	80	85
Cys Leu Val Ala Leu Cys Glu Ala Glu Glu Ala Pro Pro Ala Ser		
	95	100
Ser Thr Pro His Val Val Gly Ser Arg Phe Asn Trp Lys Leu Phe		
	110	115
Trp Gln Phe Leu His Pro His Leu Leu Val Leu Gly Val Ala Val		
	125	130
Val Leu Ala Leu Gly Ala Ala Leu Val Asn Val Gln Ile Pro Leu		
	140	145
Leu Leu Gly Gln Leu Val Glu Val Val Ala Lys Tyr Thr Arg Asp		
	155	160
His Val Gly Ser Phe Met Thr Glu Ser Gln Asn Leu Ser Thr His		
	170	175
		180

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Leu	Leu	Ile	Leu	Tyr	Gly	Val	Gln	Gly	Leu	Leu	Thr	Phe	Gly	Tyr	185	190	195
Leu	Val	Leu	Leu	Ser	His	Val	Gly	Glu	Arg	Met	Ala	Val	Asp	Met	200	205	210
Arg	Arg	Ala	Leu	Phe	Ser	Ser	Leu	Leu	Arg	Gln	Asp	Ile	Thr	Phe	215	220	225
Phe	Asp	Ala	Asn	Lys	Thr	Gly	Gln	Leu	Val	Ser	Arg	Leu	Thr	Thr	230	235	240
Asp	Val	Gln	Glu	Phe	Lys	Ser	Ser	Phe	Lys	Leu	Val	Ile	Ser	Gln	245	250	255
Gly	Leu	Arg	Ser	Cys	Thr	Gln	Val	Ala	Gly	Cys	Leu	Val	Ser	Leu	260	265	270
Ser	Met	Leu	Ser	Thr	Arg	Leu	Thr	Leu	Leu	Leu	Met	Val	Ala	Thr	275	280	285
Pro	Ala	Leu	Met	Gly	Val	Gly	Thr	Leu	Met	Gly	Ser	Gly	Leu	Arg	290	295	300
Lys	Leu	Ser	Arg	Gln	Cys	Gln	Glu	Gln	Ile	Ala	Arg	Ala	Met	Gly	305	310	315
Val	Ala	Asp	Glu	Ala	Leu	Gly	Asn	Val	Arg	Thr	Val	Arg	Ala	Phe	320	325	330
Ala	Met	Glu	Gln	Arg	Glu	Glu	Glu	Arg	Tyr	Gly	Ala	Glu	Leu	Glu	335	340	345
Ala	Cys	Arg	Cys	Arg	Ala	Glu	Glu	Leu	Gly	Arg	Gly	Ile	Ala	Leu	350	355	360
Phe	Gln	Gly	Leu	Ser	Asn	Ile	Ala	Phe	Asn	Cys	Met	Val	Leu	Gly	365	370	375
Thr	Leu	Phe	Ile	Gly	Gly	Ser	Leu	Val	Ala	Gly	Gln	Gln	Leu	Thr	380	385	390
Gly	Gly	Asp	Leu	Met	Ser	Phe	Leu	Val	Ala	Ser	Gln	Thr	Val	Gln	395	400	405
Arg	Ser	Met	Ala	Asn	Leu	Ser	Val	Leu	Phe	Gly	Gln	Val	Val	Arg	410	415	420
Gly	Leu	Ser	Ala	Gly	Ala	Arg	Val	Phe	Glu	Tyr	Met	Ala	Leu	Asn	425	430	435
Pro	Cys	Ile	Pro	Leu	Ser	Gly	Gly	Cys	Cys	Val	Pro	Lys	Glu	Gln	440	445	450
Leu	Arg	Gly	Ser	Val	Thr	Phe	Gln	Asn	Val	Cys	Phe	Ser	Tyr	Pro	455	460	465
Cys	Arg	Pro	Gly	Phe	Glu	Val	Leu	Lys	Asp	Phe	Thr	Leu	Thr	Leu	470	475	480
Pro	Pro	Gly	Lys	Ile	Val	Ala	Leu	Val	Gly	Gln	Ser	Gly	Gly	Gly	485	490	495
Lys	Thr	Thr	Val	Ala	Ser	Leu	Leu	Glu	Arg	Phe	Tyr	Asp	Pro	Thr	500	505	510
Ala	Gly	Val	Val	Met	Leu	Asp	Gly	Arg	Asp	Leu	Arg	Thr	Leu	Asp	515	520	525
Pro	Ser	Trp	Leu	Arg	Gly	Gln	Val	Val	Gly	Phe	Ile	Ser	Gln	Glu	530	535	540
Pro	Val	Leu	Phe	Gly	Thr	Thr	Ile	Met	Glu	Asn	Ile	Arg	Phe	Gly	545	550	555
Lys	Leu	Glu	Ala	Ser	Asp	Glu	Glu	Val	Tyr	Thr	Ala	Ala	Arg	Glu	560	565	570
Ala	Asn	Ala	His	Glu	Phe	Ile	Thr	Ser	Phe	Pro	Glu	Gly	Tyr	Asn	575	580	585

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Thr	Val	Val	Gly	Glu	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln	Lys
				590					595					600
Gln	Arg	Leu	Ala	Ile	Ala	Arg	Ala	Leu	Ile	Lys	Gln	Pro	Thr	Val
				605					610					615
Leu	Ile	Leu	Asp	Glu	Ala	Thr	Ser	Ala	Leu	Asp	Ala	Glu	Ser	Glu
				620					625					630
Arg	Val	Val	Gln	Glu	Ala	Leu	Asp	Arg	Ala	Ser	Ala	Gly	Arg	Thr
				635					640					645
Val	Leu	Val	Ile	Ala	His	Arg	Leu	Ser	Thr	Val	Arg	Gly	Ala	His
				650					655					660
Cys	Ile	Val	Val	Met	Ala	Asp	Gly	Arg	Val	Trp	Glu	Ala	Gly	Thr
				665					670					675
His	Glu	Glu	Leu	Leu	Lys	Lys	Gly	Gly	Leu	Tyr	Ala	Glu	Leu	Ile
				680					685					690
Arg	Arg	Gln	Ala	Leu	Asp	Ala	Pro	Arg	Thr	Ala	Ala	Pro	Pro	Pro
				695					700					705
Lys	Lys	Pro	Glu	Gly	Pro	Arg	Ser	His	Gln	His	Lys	Ser		
				710					715					

<210> 5

<211> 635

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2740029CD1

<400> 5

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Gly	Thr	Ser	Val	Gly	Met	Ser	Thr	Phe	Ser	Ile	Met	Asp	Tyr	Val
				20					25					30
Val	Phe	Val	Leu	Leu	Leu	Val	Leu	Ser	Leu	Ala	Ile	Gly	Leu	Tyr
				35					40					45
His	Ala	Cys	Arg	Gly	Trp	Gly	Arg	His	Thr	Val	Gly	Glu	Leu	Leu
				50					55					60
Met	Ala	Asp	Arg	Lys	Met	Gly	Cys	Leu	Pro	Val	Ala	Leu	Ser	Leu
				65					70					75
Leu	Ala	Thr	Phe	Gln	Ser	Ala	Val	Ala	Ile	Leu	Gly	Val	Pro	Ser
				80					85					90
Glu	Ile	Tyr	Arg	Phe	Gly	Thr	Gln	Tyr	Trp	Phe	Leu	Gly	Cys	Cys
				95					100					105
Tyr	Phe	Leu	Gly	Leu	Leu	Ile	Pro	Ala	His	Ile	Phe	Ile	Pro	Val
				110					115					120
Phe	Tyr	Arg	Leu	His	Leu	Thr	Ser	Ala	Tyr	Glu	Tyr	Leu	Glu	Leu
				125					130					135
Arg	Phe	Asn	Lys	Thr	Val	Arg	Val	Cys	Gly	Thr	Val	Thr	Phe	Ile
				140					145					150
Phe	Gln	Met	Val	Ile	Tyr	Met	Gly	Val	Val	Leu	Tyr	Ala	Pro	Ser
				155					160					165
Leu	Ala	Leu	Asn	Ala	Val	Thr	Gly	Phe	Asp	Leu	Trp	Leu	Ser	Val
				170					175					180
Leu	Ala	Leu	Gly	Ile	Val	Cys	Thr	Val	Tyr	Thr	Ala	Leu	Gly	Gly

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	185		190		195
Leu Lys Ala Val	Ile Trp Thr Asp Val	Phe Gln Thr Leu Val	Met		
	200		205		210
Phe Leu Gly Gln	Leu Ala Val Ile Ile	Val Gly Ser Ala Lys	Val		
	215		220		225
Gly Gly Leu Gly	Arg Val Trp Ala Val	Ala Ser Gln His Gly	Arg		
	230		235		240
Ile Ser Gly Phe	Glu Leu Asp Pro Asp	Pro Phe Val Arg His	Thr		
	245		250		255
Phe Trp Thr Leu	Ala Phe Gly Gly Val	Phe Met Met Leu Ser	Leu		
	260		265		270
Tyr Gly Val Asn	Gln Ala Gln Val Gln	Arg Tyr Leu Ser Ser	Arg		
	275		280		285
Thr Glu Lys Ala	Ala Val Leu Ser Cys	Tyr Ala Val Phe Pro	Phe		
	290		295		300
Gln Gln Val Ser	Leu Cys Val Gly Cys	Leu Ile Gly Leu Val	Met		
	305		310		315
Phe Ala Tyr Tyr	Gln Glu Tyr Pro Met	Ser Ile Gln Gln Ala	Gln		
	320		325		330
Ala Ala Pro Asp	Gln Phe Val Leu Tyr	Phe Val Met Asp Leu	Leu		
	335		340		345
Lys Gly Leu Pro	Gly Leu Pro Gly Leu	Phe Ile Ala Cys Leu	Phe		
	350		355		360
Ser Gly Ser Leu	Ser Thr Ile Ser Ser	Ala Phe Asn Ser Leu	Ala		
	365		370		375
Thr Val Thr Met	Glu Asp Leu Ile Arg	Pro Trp Phe Pro Glu	Phe		
	380		385		390
Ser Glu Ala Arg	Ala Ile Met Leu Ser	Arg Gly Leu Ala Phe	Gly		
	395		400		405
Tyr Gly Leu Leu	Cys Leu Gly Met Ala	Tyr Ile Ser Ser Gln	Met		
	410		415		420
Gly Pro Val Leu	Gln Ala Ala Ile Ser	Ile Phe Gly Met Val	Gly		
	425		430		435
Gly Pro Leu Leu	Gly Leu Phe Cys Leu	Gly Met Phe Phe Pro	Cys		
	440		445		450
Ala Asn Pro Pro	Gly Ala Val Val Gly	Leu Leu Ala Gly Leu	Val		
	455		460		465
Met Ala Phe Trp	Ile Gly Ile Gly Ser	Ile Val Thr Ser Met	Gly		
	470		475		480
Ser Ser Met Pro	Pro Ser Pro Ser Asn	Gly Ser Ser Phe Ser	Leu		
	485		490		495
Pro Thr Asn Leu	Thr Val Ala Thr Val	Thr Thr Leu Met Pro	Leu		
	500		505		510
Thr Thr Phe Ser	Lys Pro Thr Gly Leu	Gln Arg Phe Tyr Ser	Leu		
	515		520		525
Ser Tyr Leu Trp	Tyr Ser Ala His Asn	Ser Thr Thr Val Ile	Val		
	530		535		540
Val Gly Leu Ile	Val Ser Leu Leu Thr	Gly Arg Met Arg Gly	Arg		
	545		550		555
Ser Leu Asn Pro	Ala Thr Ile Tyr Pro	Val Leu Pro Lys Leu	Leu		
	560		565		570
Ser Leu Leu Pro	Leu Ser Cys Gln Lys	Arg Leu His Cys Arg	Ser		
	575		580		585
Tyr Gly Gln Asp	His Leu Asp Thr Gly	Leu Phe Pro Glu Lys	Pro		

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	590		595		600
Arg Asn Gly Val	Leu Gly Asp Ser Arg	Asp Lys Glu Ala Met	Ala		
	605		610		615
Leu Asp Gly Thr	Ala Tyr Gln Gly Ser	Ser Ser Thr Cys Ile	Leu		
	620		625		630
Gln Glu Thr Ser	Leu				
	635				

<210> 6

<211> 535

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2414415CD1

<400> 6

Met Glu Glu Gly	Ala Arg His Arg Asn	Asn Thr Glu Lys Lys	His		
1	5	10	15		
Pro Gly Gly Gly	Glu Ser Asp Ala Ser	Pro Glu Ala Gly Ser	Gly		
	20	25	30		
Gly Gly Gly Val	Ala Leu Lys Lys Glu	Ile Gly Leu Val Ser	Ala		
	35	40	45		
Cys Gly Ile Ile	Val Gly Asn Ile Ile	Gly Ser Gly Ile Phe	Val		
	50	55	60		
Ser Pro Lys Gly	Val Leu Glu Asn Ala	Gly Ser Val Gly Leu	Ala		
	65	70	75		
Leu Ile Val Trp	Ile Val Thr Gly Phe	Ile Thr Val Val Gly	Ala		
	80	85	90		
Leu Cys Tyr Ala	Glu Leu Gly Val Thr	Ile Pro Lys Ser Gly	Gly		
	95	100	105		
Asp Tyr Ser Tyr	Val Lys Asp Ile Phe	Gly Gly Leu Ala Gly	Phe		
	110	115	120		
Leu Arg Leu Trp	Ile Ala Val Leu Val	Ile Tyr Pro Thr Asn	Gln		
	125	130	135		
Ala Val Ile Ala	Leu Thr Phe Ser Asn	Tyr Val Leu Gln Pro	Leu		
	140	145	150		
Phe Pro Thr Cys	Phe Pro Pro Glu Ser	Gly Leu Arg Leu Leu	Ala		
	155	160	165		
Ala Ile Cys Leu	Leu Leu Leu Thr Trp	Val Asn Cys Ser Ser	Val		
	170	175	180		
Arg Trp Ala Thr	Arg Val Gln Asp Ile	Phe Thr Ala Gly Lys	Leu		
	185	190	195		
Leu Ala Leu Ala	Leu Ile Ile Ile Met	Gly Ile Val Gln Ile	Cys		
	200	205	210		
Lys Gly Glu Tyr	Phe Trp Leu Glu Pro	Lys Asn Ala Phe Glu	Asn		
	215	220	225		
Phe Gln Glu Pro	Asp Ile Gly Leu Val	Ala Leu Ala Phe Leu	Gln		
	230	235	240		
Gly Ser Phe Ala	Tyr Gly Gly Trp Asn	Phe Leu Asn Tyr Val	Thr		
	245	250	255		
Glu Glu Leu Val	Asp Pro Tyr Lys Asn	Leu Pro Arg Ala Ile	Phe		
	260	265	270		

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Ile Ser Ile Pro Leu Val Thr Phe Val Tyr Val Phe Ala Asn Val	275	280	285
Ala Tyr Val Thr Ala Met Ser Pro Gln Glu Leu Leu Ala Ser Asn	290	295	300
Ala Val Ala Val Thr Phe Gly Glu Lys Leu Leu Gly Val Met Ala	305	310	315
Trp Ile Met Pro Ile Ser Val Ala Leu Ser Thr Phe Gly Gly Val	320	325	330
Asn Gly Ser Leu Phe Thr Ser Ser Arg Leu Phe Phe Ala Gly Ala	335	340	345
Arg Glu Gly His Leu Pro Ser Val Leu Ala Met Ile His Val Lys	350	355	360
Arg Cys Thr Pro Ile Pro Ala Leu Leu Phe Thr Cys Ile Ser Thr	365	370	375
Leu Leu Met Leu Val Thr Ser Asp Met Tyr Thr Leu Ile Asn Tyr	380	385	390
Val Gly Phe Ile Asn Tyr Leu Phe Tyr Gly Val Thr Val Ala Gly	395	400	405
Gln Ile Val Leu Arg Trp Lys Lys Pro Asp Ile Pro Arg Pro Ile	410	415	420
Lys Ile Asn Leu Leu Phe Pro Ile Ile Tyr Leu Leu Phe Trp Ala	425	430	435
Phe Leu Leu Val Phe Ser Leu Trp Ser Glu Pro Val Val Cys Gly	440	445	450
Ile Gly Leu Ala Ile Met Leu Thr Gly Val Pro Val Tyr Phe Leu	455	460	465
Gly Val Tyr Trp Gln His Lys Pro Lys Cys Phe Ser Asp Phe Ile	470	475	480
Glu Leu Leu Thr Leu Val Ser Gln Lys Met Cys Val Val Val Tyr	485	490	495
Pro Glu Val Glu Arg Gly Ser Gly Thr Glu Glu Ala Asn Glu Asp	500	505	510
Met Glu Glu Gln Gln Gln Pro Met Tyr Gln Pro Thr Pro Thr Lys	515	520	525
Asp Lys Asp Val Ala Gly Gln Pro Gln Pro	530	535	

<210> 7

<211> 456

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2466714CD1

<400> 7

Met Glu Ala Ser Trp Gly Ser Phe Asn Ala Glu Arg Gly Trp Tyr	1	5	10	15
Val Ser Val Gln Gln Pro Glu Glu Ala Glu Ala Glu Glu Leu Ser	20	25	30	
Pro Leu Leu Ser Asn Glu Leu His Arg Gln Arg Ser Pro Gly Val	35	40	45	
Ser Phe Gly Leu Ser Val Phe Asn Leu Met Asn Ala Ile Met Gly				

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	50		55		60
Ser Gly Ile Leu Gly Leu Ala Tyr Val Met Ala Asn Thr Gly Val					
	65		70		75
Phe Gly Phe Ser Phe Leu Leu Leu Thr Val Ala Leu Leu Ala Ser					
	80		85		90
Tyr Ser Val His Leu Leu Leu Ser Met Cys Ile Gln Thr Ala Val					
	95		100		105
Thr Ser Tyr Glu Asp Leu Gly Leu Phe Ala Phe Gly Leu Pro Gly					
	110		115		120
Lys Leu Val Val Ala Gly Thr Ile Ile Ile Gln Asn Ile Gly Ala					
	125		130		135
Met Ser Ser Tyr Leu Leu Ile Ile Lys Thr Glu Leu Pro Ala Ala					
	140		145		150
Ile Ala Glu Phe Leu Thr Gly Asp Tyr Asn Arg Tyr Trp Tyr Leu					
	155		160		165
Asp Gly Gln Thr Leu Leu Ile Ile Ile Cys Val Gly Ile Val Phe					
	170		175		180
Pro Leu Ala Leu Leu Pro Lys Ile Gly Phe Leu Gly Tyr Thr Ser					
	185		190		195
Ser Leu Ser Phe Phe Phe Met Met Phe Phe Ala Leu Val Val Ile					
	200		205		210
Ile Lys Lys Trp Ser Ile Pro Cys Pro Leu Thr Leu Asn Tyr Val					
	215		220		225
Glu Lys Gly Phe Gln Ile Ser Asn Val Thr Asp Asp Cys Lys Pro					
	230		235		240
Lys Leu Phe His Phe Ser Lys Glu Ser Ala Tyr Ala Leu Pro Thr					
	245		250		255
Met Ala Phe Ser Phe Leu Cys His Thr Ser Ile Leu Pro Ile Tyr					
	260		265		270
Cys Glu Leu Gln Ser Pro Ser Lys Lys Arg Met Gln Asn Val Thr					
	275		280		285
Asn Thr Ala Ile Ala Leu Ser Phe Leu Ile Tyr Phe Ile Ser Ala					
	290		295		300
Leu Phe Gly Tyr Leu Thr Phe Tyr Asp Lys Val Glu Ser Glu Leu					
	305		310		315
Leu Lys Gly Tyr Ser Lys Tyr Leu Ser His Asp Val Val Val Met					
	320		325		330
Thr Val Lys Leu Cys Ile Leu Phe Ala Val Leu Leu Thr Val Pro					
	335		340		345
Leu Ile His Phe Pro Ala Arg Lys Ala Val Thr Met Met Phe Phe					
	350		355		360
Ser Asn Phe Pro Phe Ser Trp Ile Arg His Phe Leu Ile Thr Leu					
	365		370		375
Ala Leu Asn Ile Ile Ile Val Leu Leu Ala Ile Tyr Val Pro Asp					
	380		385		390
Ile Arg Asn Val Phe Gly Val Val Gly Ala Ser Thr Ser Thr Cys					
	395		400		405
Leu Ile Phe Ile Phe Pro Gly Leu Phe Tyr Leu Lys Leu Ser Arg					
	410		415		420
Glu Asp Phe Leu Ser Trp Lys Lys Leu Gly Ala Phe Val Leu Leu					
	425		430		435
Ile Phe Gly Ile Leu Val Gly Asn Phe Ser Leu Ala Leu Ile Ile					
	440		445		450
Phe Asp Trp Ile Asn Lys					

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455

<210> 8

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2617942CD1

<400> 8

Met	Phe	Ala	Asn	Leu	Lys	Tyr	Val	Ser	Leu	Gly	Ile	Leu	Val	Phe
1				5					10					15
Gln	Thr	Thr	Ser	Leu	Val	Leu	Thr	Met	Arg	Tyr	Ser	Arg	Thr	Leu
				20					25					30
Lys	Glu	Glu	Gly	Pro	Arg	Tyr	Leu	Ser	Ser	Thr	Ala	Val	Val	Val
				35					40					45
Ala	Glu	Leu	Leu	Lys	Ile	Met	Ala	Cys	Ile	Leu	Leu	Val	Tyr	Lys
				50					55					60
Asp	Ser	Lys	Cys	Ser	Leu	Arg	Ala	Leu	Asn	Arg	Val	Leu	His	Asp
				65					70					75
Glu	Ile	Leu	Asn	Lys	Pro	Met	Glu	Thr	Leu	Lys	Leu	Ala	Ile	Pro
				80					85					90
Ser	Gly	Ile	Tyr	Thr	Leu	Gln	Asn	Asn	Leu	Leu	Tyr	Val	Ala	Leu
				95					100					105
Ser	Asn	Leu	Asp	Ala	Ala	Thr	Tyr	Gln	Val	Thr	Tyr	Gln	Leu	Lys
				110					115					120
Ile	Leu	Thr	Thr	Ala	Leu	Phe	Ser	Val	Ser	Met	Leu	Ser	Lys	Lys
				125					130					135
Leu	Gly	Val	Tyr	Gln	Trp	Leu	Ser	Leu	Val	Ile	Leu	Met	Thr	Gly
				140					145					150
Val	Ala	Phe	Val	Gln	Trp	Pro	Ser	Asp	Ser	Gln	Leu	Asp	Ser	Lys
				155					160					165
Glu	Leu	Ser	Ala	Gly	Ser	Gln	Phe	Val	Gly	Leu	Met	Ala	Val	Leu
				170					175					180
Thr	Ala	Cys	Phe	Ser	Ser	Gly	Phe	Ala	Gly	Val	Tyr	Phe	Glu	Lys
				185					190					195
Ile	Leu	Lys	Glu	Thr	Lys	Gln	Ser	Val	Trp	Ile	Arg	Asn	Ile	Gln
				200					205					210
Leu	Gly	Phe	Phe	Gly	Ser	Ile	Phe	Gly	Leu	Met	Gly	Val	Tyr	Ile
				215					220					225
Tyr	Asp	Gly	Glu	Leu	Val	Ser	Lys	Asn	Gly	Phe	Phe	Gln	Gly	Tyr
				230					235					240
Asn	Arg	Leu	Thr	Trp	Ile	Val	Val	Val	Leu	Gln	Ala	Leu	Gly	Gly
				245					250					255
Leu	Val	Ile	Ala	Ala	Val	Ile	Lys	Tyr	Ala	Asp	Asn	Ile	Leu	Lys
				260					265					270
Gly	Phe	Ala	Thr	Ser	Leu	Ser	Ile	Ile	Leu	Ser	Thr	Leu	Ile	Ser
				275					280					285
Tyr	Phe	Trp	Leu	Gln	Asp	Phe	Val	Pro	Thr	Ser	Val	Phe	Phe	Leu
				290					295					300
Gly	Ala	Ile	Leu	Val	Ile	Thr	Ala	Thr	Phe	Leu	Tyr	Gly	Tyr	Asp
				305					310					315

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Pro Lys Pro Ala Gly Asn Pro Thr Lys Ala
320 325

<210> 9
<211> 178
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2945431CD1

<400> 9
Met Ser Leu Ser Pro Arg Ser Gln Leu Ala Ile Ile Pro Gln Glu
1 5 10 15
Pro Phe Leu Phe Ser Gly Thr Val Arg Glu Asn Leu Asp Pro Gln
20 25 30
Gly Leu His Lys Asp Arg Ala Leu Trp Gln Ala Leu Lys Gln Cys
35 40 45
His Leu Ser Glu Val Ile Thr Ser Met Gly Gly Leu Asp Gly Glu
50 55 60
Leu Gly Glu Gly Gly Arg Ser Leu Ser Leu Gly Gln Arg Gln Leu
65 70 75
Leu Cys Leu Ala Arg Ala Leu Leu Thr Asp Ala Lys Ile Leu Cys
80 85 90
Ile Asp Glu Ala Thr Ala Ser Val Asp Gln Lys Thr Asp Gln Leu
95 100 105
Leu Gln Gln Thr Ile Cys Lys Arg Phe Ala Asn Lys Thr Val Leu
110 115 120
Thr Ile Ala His Arg Leu Asn Thr Ile Leu Asn Ser Asp Arg Val
125 130 135
Leu Val Leu Gln Ala Gly Arg Val Val Glu Leu Asp Ser Pro Ala
140 145 150
Thr Leu Arg Asn Gln Pro His Ser Leu Phe Gln Gln Leu Leu Gln
155 160 165
Ser Ser Gln Gln Gly Val Pro Ala Ser Leu Gly Gly Pro
170 175

<210> 10
<211> 255
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4074113CD1

<400> 10
Met Glu Arg Glu Met Glu Gly Arg Pro Leu His Asn Glu Gly Trp
1 5 10 15
Ile Asp Arg Ser Arg Val Gln Gln Lys Asp Leu Pro Asn Lys Cys
20 25 30
Pro Gln Thr Leu Trp Ser Glu Gln Ala Phe Pro Pro Asn Pro Gly
35 40 45

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Gln	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser	Leu	50	55	60
Ala	Ser	Gly	Leu	Leu	Arg	Leu	Pro	Glu	Ala	Ala	Glu	Gly	Gly	Ile	65	70	75
Trp	Ile	Asp	Gly	Val	Pro	Ile	Ala	His	Val	Gly	Leu	His	Thr	Leu	80	85	90
Arg	Ser	Arg	Ile	Ser	Ile	Ile	Pro	Gln	Asp	Pro	Ile	Leu	Phe	Pro	95	100	105
Gly	Ser	Leu	Arg	Met	Asn	Leu	Asp	Leu	Leu	Gln	Glu	His	Ser	Asp	110	115	120
Glu	Ala	Ile	Trp	Ala	Ala	Leu	Glu	Thr	Val	Gln	Leu	Lys	Ala	Leu	125	130	135
Val	Ala	Ser	Leu	Pro	Gly	Gln	Leu	Gln	Tyr	Lys	Cys	Ala	Asp	Arg	140	145	150
Gly	Glu	Asp	Leu	Ser	Val	Gly	Gln	Lys	Gln	Leu	Leu	Cys	Leu	Ala	155	160	165
Arg	Ala	Leu	Leu	Arg	Lys	Thr	Gln	Ile	Leu	Ile	Leu	Asp	Glu	Ala	170	175	180
Thr	Ala	Ala	Val	Asp	Pro	Gly	Thr	Glu	Leu	Gln	Met	Gln	Ala	Met	185	190	195
Leu	Gly	Ser	Trp	Phe	Ala	Gln	Cys	Thr	Val	Leu	Leu	Ile	Ala	His	200	205	210
Arg	Leu	Arg	Ser	Val	Met	Asp	Cys	Ala	Arg	Val	Leu	Val	Met	Asp	215	220	225
Lys	Gly	Gln	Val	Ala	Glu	Ser	Gly	Ser	Pro	Ala	Gln	Leu	Leu	Ala	230	235	240
Gln	Lys	Gly	Leu	Phe	Tyr	Arg	Leu	Ala	Gln	Glu	Ser	Gly	Leu	Val	245	250	255

<210> 11

<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1413743CD1

<400> 11

Met	Ala	Gln	Val	Ser	Ile	Asn	Asn	Asp	Tyr	Ser	Glu	Trp	Asp	Leu	1	5	10	15
Ser	Thr	Asp	Ala	Gly	Glu	Arg	Ala	Arg	Leu	Leu	Gln	Ser	Pro	Cys	20	25	30	35
Val	Asp	Thr	Ala	Pro	Lys	Ser	Glu	Trp	Glu	Ala	Ser	Pro	Gly	Gly	35	40	45	50
Leu	Asp	Arg	Gly	Thr	Thr	Ser	Thr	Leu	Gly	Ala	Ile	Phe	Ile	Val	50	55	60	65
Val	Asn	Ala	Cys	Leu	Gly	Ala	Gly	Leu	Leu	Asn	Phe	Pro	Ala	Ala	65	70	75	80
Phe	Ser	Thr	Ala	Gly	Gly	Val	Ala	Ala	Gly	Ile	Ala	Leu	Gln	Met	80	85	90	95
Gly	Met	Leu	Val	Phe	Ile	Ile	Ser	Gly	Leu	Val	Ile	Leu	Ala	Tyr	95	100	105	

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Cys	Ser	Gln	Ala	Ser	Asn	Glu	Arg	Thr	Tyr	Gln	Glu	Val	Val	Trp	110	115	120
Ala	Val	Cys	Gly	Lys	Leu	Thr	Gly	Val	Leu	Cys	Glu	Val	Ala	Ile	125	130	135
Ala	Val	Tyr	Thr	Phe	Gly	Thr	Cys	Ile	Ala	Phe	Leu	Ile	Ile	Ile	140	145	150
Gly	Asp	Gln	Gln	Asp	Lys	Ile	Ile	Ala	Val	Met	Ala	Lys	Glu	Pro	155	160	165
Glu	Gly	Ala	Ser	Gly	Pro	Trp	Tyr	Thr	Asp	Arg	Lys	Phe	Thr	Ile	170	175	180
Ser	Leu	Thr	Ala	Phe	Leu	Phe	Ile	Leu	Pro	Leu	Ser	Ile	Pro	Arg	185	190	195
Glu	Ile	Gly	Phe	Gln	Lys	Tyr	Ala	Ser	Phe	Leu	Ser	Val	Val	Gly	200	205	210
Thr	Trp	Tyr	Val	Thr	Ala	Ile	Val	Ile	Ile	Lys	Tyr	Ile	Trp	Pro	215	220	225
Asp	Lys	Glu	Met	Thr	Pro	Gly	Asn	Ile	Leu	Thr	Arg	Pro	Ala	Ser	230	235	240
Trp	Met	Ala	Val	Phe	Asn	Ala	Met	Pro	Thr	Ile	Cys	Phe	Gly	Phe	245	250	255
Gln	Cys	His	Val	Ser	Ser	Val	Pro	Val	Phe	Asn	Ser	Met	Gln	Gln	260	265	270
Pro	Glu	Val	Lys	Thr	Trp	Gly	Gly	Val	Val	Thr	Ala	Ala	Met	Val	275	280	285
Ile	Ala	Leu	Ala	Val	Tyr	Met	Gly	Thr	Gly	Ile	Cys	Gly	Phe	Leu	290	295	300
Thr	Phe	Gly	Ala	Ala	Val	Asp	Pro	Asp	Val	Leu	Leu	Ser	Tyr	Pro	305	310	315
Ser	Glu	Asp	Met	Ala	Val	Ala	Val	Ala	Arg	Ala	Phe	Ile	Ile	Leu	320	325	330
Ser	Val	Leu	Thr	Ser	Tyr	Pro	Ile	Leu	His	Phe	Cys	Gly	Arg	Ala	335	340	345
Val	Val	Glu	Gly	Leu	Trp	Leu	Arg	Tyr	Gln	Gly	Val	Pro	Val	Glu	350	355	360
Glu	Asp	Val	Gly	Arg	Glu	Arg	Arg	Arg	Arg	Val	Leu	Gln	Thr	Leu	365	370	375
Val	Trp	Phe	Leu	Leu	Thr	Leu	Leu	Leu	Ala	Leu	Phe	Ile	Pro	Asp	380	385	390
Ile	Gly	Lys	Val	Ile	Ser	Val	Ile	Gly	Gly	Leu	Ala	Ala	Cys	Phe	395	400	405
Ile	Phe	Val	Phe	Pro	Gly	Leu	Cys	Leu	Ile	Gln	Ala	Lys	Leu	Ser	410	415	420
Glu	Met	Glu	Glu	Val	Lys	Pro	Ala	Ser	Trp	Trp	Val	Leu	Val	Ser	425	430	435
Tyr	Gly	Val	Leu	Leu	Val	Thr	Leu	Gly	Ala	Phe	Ile	Phe	Gly	Gln	440	445	450
Thr	Thr	Ala	Asn	Ala	Ile	Phe	Val	Asp	Leu	Leu	Ala				455	460	

<210> 12
 <211> 758
 <212> PRT
 <213> Homo sapiens

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<220>

<221> misc_feature

<223> Incyte ID No: 1733477CD1

<400> 12

Met	Gly	Leu	Ala	Asp	Ala	Ser	Gly	Pro	Arg	Asp	Thr	Gln	Ala	Leu
1				5					10					15
Leu	Ser	Ala	Thr	Gln	Ala	Met	Asp	Leu	Arg	Arg	Arg	Asp	Tyr	His
				20					25					30
Met	Glu	Arg	Pro	Leu	Leu	Asn	Gln	Glu	His	Leu	Glu	Glu	Leu	Gly
				35					40					45
Arg	Trp	Gly	Ser	Ala	Pro	Arg	Thr	His	Gln	Trp	Arg	Thr	Trp	Leu
				50					55					60
Gln	Cys	Ser	Arg	Ala	Arg	Ala	Tyr	Ala	Leu	Leu	Leu	Gln	His	Leu
				65					70					75
Pro	Val	Leu	Val	Trp	Leu	Pro	Arg	Tyr	Pro	Val	Arg	Asp	Trp	Leu
				80					85					90
Leu	Gly	Asp	Leu	Leu	Ser	Gly	Leu	Ser	Val	Ala	Ile	Met	Gln	Leu
				95					100					105
Pro	Gln	Gly	Leu	Ala	Tyr	Ala	Leu	Leu	Ala	Gly	Leu	Pro	Pro	Val
				110					115					120
Phe	Gly	Leu	Tyr	Ser	Ser	Phe	Tyr	Pro	Val	Phe	Ile	Tyr	Phe	Leu
				125					130					135
Phe	Gly	Thr	Ser	Arg	His	Ile	Ser	Val	Gly	Thr	Phe	Ala	Val	Met
				140					145					150
Ser	Val	Met	Val	Gly	Gly	Val	Thr	Glu	Ser	Leu	Ala	Pro	Gln	Ala
				155					160					165
Leu	Asn	Asp	Ser	Met	Ile	Asn	Glu	Thr	Ala	Arg	Asp	Ala	Ala	Arg
				170					175					180
Val	Gln	Val	Ala	Ser	Thr	Leu	Ser	Val	Leu	Val	Gly	Leu	Phe	Gln
				185					190					195
Val	Gly	Leu	Gly	Leu	Ile	His	Phe	Gly	Phe	Val	Val	Thr	Tyr	Leu
				200					205					210
Ser	Glu	Pro	Leu	Val	Arg	Gly	Tyr	Thr	Thr	Ala	Ala	Ala	Val	Gln
				215					220					225
Val	Phe	Val	Ser	Gln	Leu	Lys	Tyr	Val	Phe	Gly	Leu	His	Leu	Ser
				230					235					240
Ser	His	Ser	Gly	Pro	Leu	Ser	Leu	Ile	Tyr	Thr	Val	Leu	Glu	Val
				245					250					255
Cys	Trp	Lys	Leu	Pro	Gln	Ser	Lys	Val	Gly	Thr	Val	Val	Thr	Ala
				260					265					270
Ala	Val	Ala	Gly	Val	Val	Leu	Val	Val	Val	Lys	Leu	Leu	Asn	Asp
				275					280					285
Lys	Leu	Gln	Gln	Gln	Leu	Pro	Met	Pro	Ile	Pro	Gly	Glu	Leu	Leu
				290					295					300
Thr	Leu	Ile	Gly	Ala	Thr	Gly	Ile	Ser	Tyr	Gly	Met	Gly	Leu	Lys
				305					310					315
His	Arg	Phe	Glu	Val	Asp	Val	Val	Gly	Asn	Ile	Pro	Ala	Gly	Leu
				320					325					330
Val	Pro	Pro	Val	Ala	Pro	Asn	Thr	Gln	Leu	Phe	Ser	Lys	Leu	Val
				335					340					345
Gly	Ser	Ala	Phe	Thr	Ile	Ala	Val	Val	Gly	Phe	Ala	Ile	Ala	Ile
				350					355					360
Ser	Leu	Gly	Lys	Ile	Phe	Ala	Leu	Arg	His	Gly	Tyr	Arg	Val	Asp

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	365		370		375
Ser Asn Gln Glu	Leu Val Ala Leu Gly	Leu Ser Asn Leu Ile	Gly		
	380		385		390
Gly Ile Phe Gln	Cys Phe Pro Val Ser	Cys Ser Met Ser Arg	Ser		
	395		400		405
Leu Val Gln Glu	Ser Thr Gly Gly Asn	Ser Gln Val Ala Gly	Ala		
	410		415		420
Ile Ser Ser Leu	Phe Ile Leu Leu Ile	Ile Val Lys Leu Gly	Glu		
	425		430		435
Leu Phe His Asp	Leu Pro Lys Ala Val	Leu Ala Ala Ile Ile	Ile		
	440		445		450
Val Asn Leu Lys	Gly Met Leu Arg Gln	Leu Ser Asp Met Arg	Ser		
	455		460		465
Leu Trp Lys Ala	Asn Arg Ala Asp Leu	Leu Ile Trp Leu Val	Thr		
	470		475		480
Phe Thr Ala Thr	Ile Leu Leu Asn Leu	Asp Leu Gly Leu Val	Val		
	485		490		495
Ala Val Ile Phe	Ser Leu Leu Leu Val	Val Val Arg Thr Gln	Met		
	500		505		510
Pro His Tyr Ser	Val Leu Gly Gln Val	Pro Asp Thr Asp Ile	Tyr		
	515		520		525
Arg Asp Val Ala	Glu Tyr Ser Glu Ala	Lys Glu Val Arg Gly	Val		
	530		535		540
Lys Val Phe Arg	Ser Ser Ala Thr Val	Tyr Phe Ala Asn Ala	Glu		
	545		550		555
Phe Tyr Ser Asp	Ala Leu Lys Gln Arg	Cys Gly Val Asp Val	Asp		
	560		565		570
Phe Leu Ile Ser	Gln Lys Lys Lys Leu	Leu Lys Lys Gln Glu	Gln		
	575		580		585
Leu Lys Leu Lys	Gln Leu Gln Lys Glu	Glu Lys Leu Arg Lys	Gln		
	590		595		600
Ala Ala Ser Pro	Lys Gly Ala Ser Val	Ser Ile Asn Val Asn	Thr		
	605		610		615
Ser Leu Glu Asp	Met Arg Ser Asn Asn	Val Glu Asp Cys Lys	Met		
	620		625		630
Met Val Ser Ser	Gly Asp Lys Met Glu	Asp Ala Thr Ala Asn	Gly		
	635		640		645
Gln Glu Asp Ser	Lys Ala Pro Asp Gly	Ser Thr Leu Lys Ala	Leu		
	650		655		660
Gly Leu Pro Gln	Pro Asp Phe His Ser	Leu Ile Leu Asp Leu	Gly		
	665		670		675
Ala Leu Ser Phe	Val Asp Thr Val Cys	Leu Lys Ser Leu Lys	Asn		
	680		685		690
Ile Phe His Asp	Phe Arg Glu Ile Glu	Val Glu Val Tyr Met	Ala		
	695		700		705
Ala Cys His Ser	Pro Val Val Ser Gln	Leu Glu Ala Gly His	Phe		
	710		715		720
Phe Asp Ala Ser	Ile Thr Lys Lys His	Leu Phe Ala Ser Val	His		
	725		730		735
Asp Ala Val Thr	Phe Ala Leu Gln His	Pro Arg Pro Val Pro	Asp		
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Ser Pro Val Ser	Val Thr Arg Leu				
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<210> 13

<211> 336

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2641908CD1

<400> 13

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Leu	Thr	Ile	Lys	Asp	Pro	Arg	Trp	Val	Gly	Ala	Trp	Trp	Leu	Gly
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Phe	Leu	Ile	Ala	Ala	Gly	Ala	Val	Ala	Leu	Ala	Ala	Ile	Pro	Tyr
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Phe	Phe	Phe	Pro	Lys	Glu	Met	Pro	Lys	Glu	Lys	Arg	Glu	Leu	Gln
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Phe	Arg	Arg	Lys	Val	Leu	Ala	Val	Thr	Asp	Ser	Pro	Ala	Arg	Lys
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Gly	Lys	Asp	Ser	Pro	Ser	Lys	Gln	Ser	Pro	Gly	Glu	Ser	Thr	Lys
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Lys	Gln	Asp	Gly	Leu	Val	Gln	Ile	Ala	Pro	Asn	Leu	Thr	Val	Ile
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Gln	Phe	Ile	Lys	Val	Phe	Pro	Arg	Val	Leu	Leu	Gln	Thr	Leu	Arg
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His	Pro	Ile	Phe	Leu	Leu	Val	Val	Leu	Ser	Gln	Val	Cys	Leu	Ser
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Ser	Met	Ala	Ala	Gly	Met	Ala	Thr	Phe	Leu	Pro	Lys	Phe	Leu	Glu
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Cys	Leu	Ser	Phe	Pro	Ser	Val	Ile	Val	Gly	Ile	Val	Val	Gly	Gly
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Val	Leu	Val	Lys	Arg	Leu	His	Leu	Gly	Pro	Val	Gly	Cys	Gly	Ala
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Leu	Cys	Leu	Leu	Gly	Met	Leu	Leu	Cys	Leu	Phe	Phe	Ser	Leu	Pro
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Leu	Phe	Phe	Ile	Gly	Cys	Ser	Ser	His	Gln	Ile	Ala	Gly	Ile	Thr
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Met	Glu	Ala	Cys	Ser	Cys	Pro	Leu	Asp	Gly	Phe	Asn	Pro	Val	Cys
				260					265					270
Asp	Pro	Ser	Thr	Arg	Val	Glu	Tyr	Ile	Thr	Pro	Cys	His	Ala	Gly
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Cys	Ser	Ser	Trp	Val	Val	Gln	Asp	Ala	Leu	Asp	Asn	Ser	Gln	Ser
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Pro	Pro	Thr	Ser	His	Pro	His	Ala	Gly	His	Gln	His	Leu	Asn	Leu
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Arg	Leu	Leu	Gln	Gly	Glu	Thr	Trp	Ala	Ala	Leu	Ala	Gly	Ala	Glu
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Glu Pro Val Asp Gly Ala
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<211> 103
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<213> Homo sapiens

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<223> Incyte ID No: 2656554CD1

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35 40 45
Phe Arg Phe Leu His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys
50 55 60
Pro Pro Lys Phe Ala Met Ser Arg Glu Gln Met Ser Gln Ser Cys
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Leu Ser Cys Gly Glu Ser Arg Ala Ser Cys Leu Phe Leu
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<210> 15
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2719228CD1

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35 40 45
Asn Ile Gln Asp Leu Ala Pro Ser Cys Ala Gly Phe Leu Phe Gly
50 55 60
Val Ala Asn Thr Ala Gly Ala Leu Ala Gly Val Val Gly Val Cys
65 70 75
Leu Gly Gly Tyr Leu Met Glu Thr Thr Gly Ser Trp Thr Cys Leu
80 85 90
Phe Asn Leu Val Ala Ile Ile Ser Asn Leu Gly Leu Cys Thr Phe
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Leu Val Phe Gly Gln Ala Gln Arg Val Asp Leu Ser Ser Thr His
110 115 120

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Glu Asp Leu

<210> 16
<211> 222
<212> PRT
<213> Homo sapiens

<220>
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35 40 45
Asp Phe Ala Tyr Ser Asp Ser Arg Val Gly Phe Val Arg Gly Tyr
50 55 60
Ser Arg Arg Phe Trp Gln Gly Asp Thr Phe His Arg Gly Ser Asp
65 70 75
Lys Met Pro Gly Arg Val Val Thr Leu Leu Glu Asp His Glu Gly
80 85 90
Cys Thr Trp Gly Val Ala Tyr Gln Val Gln Gly Glu Gln Val Ser
95 100 105
Lys Ala Leu Lys Tyr Leu Asn Val Arg Glu Ala Val Leu Gly Gly
110 115 120
Tyr Asp Thr Lys Glu Val Thr Phe Tyr Pro Gln Asp Ala Pro Asp
125 130 135
Gln Pro Leu Lys Ala Leu Ala Tyr Val Ala Thr Pro Gln Asn Pro
140 145 150
Gly Tyr Leu Gly Pro Ala Pro Glu Glu Ala Ile Ala Thr Gln Ile
155 160 165
Leu Ala Cys Arg Gly Phe Ser Gly His Asn Leu Glu Tyr Leu Leu
170 175 180
Arg Leu Ala Asp Phe Met Gln Leu Cys Gly Pro Gln Ala Gln Asp
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Glu His Leu Ala Ala Ile Val Asp Ala Val Gly Thr Met Leu Pro
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Cys Phe Cys Pro Thr Glu Gln Ala Leu Ala Leu Val
215 220

<210> 17
<211> 111
<212> PRT
<213> Homo sapiens

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<400> 17

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Met Thr Ala His Ser Phe Ala Leu Pro Val Ile Ile Phe Thr Thr
      35              40              45
Phe Trp Gly Leu Val Gly Ile Ala Gly Pro Trp Phe Val Pro Lys
      50              55              60
Gly Pro Asn Arg Gly Val Ile Ile Thr Met Leu Val Ala Thr Ala
      65              70              75
Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu
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Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr
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<211> 1303

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 961344CB1

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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 3128782CB1

<400> 19

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<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1720440CB1

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<211> 2562

<212> DNA

<213> Homo sapiens

<220>

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<213> Homo sapiens

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<223> Incyte ID No: 2414415CB1

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<213> Homo sapiens

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<213> Homo sapiens

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<223> Incyte ID No: 2617942CB1

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<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4074113CB1

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<210> 29

<211> 2580

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1733477CB1

<400> 29

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<210> 30

<211> 1481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2641908CB1

<400> 30

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ggccctggct gccatccct acttcttctt cccaaggaa atgccaagg aaaaacgtga 420
gcttcagttt cggcgaaagg tcttagcagt cacagactca cctgccagga agggcaagga 480
ctctccctct aagcagagcc ctggggagtc cacgaagaag caggatggcc tagtccagat 540

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<210> 31

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2656554CB1

<400> 31

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<210> 32

<211> 1635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2719228CB1

<400> 32

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ccctgtagggt tacagagcca tcacgggtgc gaagctcatg cagggcatgg gccttggcct 180
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<210> 33
 <211> 1447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3657824CB1

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<400> 33
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<210> 34

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5378485CB1

<400> 34

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<210> 35

<211> 646

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g2612939

<400> 35

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Ala Phe Cys Val Tyr Val Gly Gly Gly Gly Trp Arg Phe Leu Arg
          35          40          45
Ile Val Cys Lys Thr Ala Arg Arg Asp Leu Phe Gly Leu Ser Val
          50          55          60
Leu Ile Arg Val Arg Leu Glu Leu Arg Arg His Arg Arg Ala Gly
          65          70          75
Asp Thr Ile Pro Cys Ile Phe Gln Ala Val Ala Arg Arg Gln Pro
          80          85          90
Glu Arg Leu Ala Leu Val Asp Ala Ser Ser Gly Ile Cys Trp Thr
          95          100          105
Phe Ala Gln Leu Asp Thr Tyr Ser Asn Ala Val Ala Asn Leu Phe
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				140					145					150
Ala	Gly	Val	Val	Ala	Ala	Leu	Leu	Asn	Val	Asn	Leu	Arg	Arg	Glu
				155					160					165
Pro	Leu	Ala	Phe	Cys	Leu	Gly	Thr	Ser	Ala	Ala	Lys	Ala	Leu	Ile
				170					175					180
Tyr	Gly	Gly	Glu	Met	Ala	Ala	Ala	Val	Ala	Glu	Val	Ser	Glu	Gln
				185					190					195
Leu	Gly	Lys	Ser	Leu	Leu	Lys	Phe	Cys	Ser	Gly	Asp	Leu	Gly	Pro
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Glu	Ser	Ile	Leu	Pro	Asp	Thr	Gln	Leu	Leu	Asp	Pro	Met	Leu	Ala
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Glu	Ala	Pro	Thr	Thr	Pro	Leu	Ala	Gln	Ala	Pro	Gly	Lys	Gly	Met
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Asp	Asp	Arg	Leu	Phe	Tyr	Ile	Tyr	Thr	Ser	Gly	Thr	Thr	Gly	Leu
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Pro	Lys	Ala	Ala	Ile	Val	Val	His	Ser	Arg	Tyr	Tyr	Arg	Ile	Ala
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Ala	Phe	Gly	His	His	Ser	Tyr	Ser	Met	Arg	Ala	Ala	Asp	Val	Leu
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Tyr	Asp	Cys	Leu	Pro	Leu	Tyr	His	Ser	Ala	Gly	Asn	Ile	Met	Gly
				290					295					300
Val	Gly	Gln	Cys	Val	Ile	Tyr	Gly	Leu	Thr	Val	Val	Leu	Arg	Lys
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Lys	Phe	Ser	Ala	Ser	Arg	Phe	Trp	Asp	Asp	Cys	Val	Lys	Tyr	Asn
				320					325					330
Cys	Thr	Val	Val	Gln	Tyr	Ile	Gly	Glu	Ile	Cys	Arg	Tyr	Leu	Leu
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Arg	Gln	Pro	Val	Arg	Asp	Val	Glu	Gln	Arg	His	Arg	Val	Arg	Leu
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Ala	Val	Gly	Asn	Gly	Leu	Arg	Pro	Ala	Ile	Trp	Glu	Glu	Phe	Thr
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Gln	Arg	Phe	Gly	Val	Pro	Gln	Ile	Gly	Glu	Phe	Tyr	Gly	Ala	Thr
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Glu	Cys	Asn	Cys	Ser	Ile	Ala	Asn	Met	Asp	Gly	Lys	Val	Gly	Ser
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Cys	Gly	Phe	Asn	Ser	Arg	Ile	Leu	Thr	His	Val	Tyr	Pro	Ile	Arg
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Leu	Val	Lys	Val	Asn	Glu	Asp	Thr	Met	Glu	Pro	Leu	Arg	Asp	Ser
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Glu	Gly	Leu	Cys	Ile	Pro	Cys	Gln	Pro	Gly	Glu	Pro	Gly	Leu	Leu
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Val	Gly	Gln	Ile	Asn	Gln	Gln	Asp	Pro	Leu	Arg	Arg	Phe	Asp	Gly
				455					460					465
Tyr	Val	Ser	Asp	Ser	Ala	Thr	Asn	Lys	Lys	Ile	Ala	His	Ser	Val
				470					475					480
Phe	Arg	Lys	Gly	Asp	Ser	Ala	Tyr	Leu	Ser	Gly	Asp	Val	Leu	Val
				485					490					495
Met	Asp	Glu	Leu	Gly	Tyr	Met	Tyr	Phe	Arg	Asp	Arg	Ser	Gly	Asp
				500					505					510
Thr	Phe	Arg	Trp	Arg	Gly	Glu	Asn	Val	Ser	Thr	Thr	Glu	Val	Glu

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	515		520		525
Ala Val Leu Ser Arg Leu Leu Gly Gln Thr Asp Val Ala Val Tyr					
	530		535		540
Gly Val Ala Val Pro Gly Val Glu Gly Lys Ala Gly Met Ala Ala					
	545		550		555
Ile Ala Asp Pro His Ser Gln Leu Asp Pro Asn Ser Met Tyr Gln					
	560		565		570
Glu Leu Gln Lys Val Leu Ala Ser Tyr Ala Arg Pro Ile Phe Leu					
	575		580		585
Arg Leu Leu Pro Gln Val Asp Thr Thr Gly Thr Phe Lys Ile Gln					
	590		595		600
Lys Thr Arg Leu Gln Arg Glu Gly Phe Asp Pro Arg Gln Thr Ser					
	605		610		615
Asp Arg Leu Phe Phe Leu Asp Leu Lys Gln Gly Arg Tyr Val Pro					
	620		625		630
Leu Asp Glu Arg Val His Ala Arg Ile Cys Ala Gly Asp Phe Ser					
	635		640		645
Leu					

<210> 36
 <211> 691
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g425474

<400> 36

Met Phe Ser Ala Leu Cys Arg Arg Gly Phe Leu Thr Asn Lys Val		
1 5 10 15		
Ser Gln Phe Arg Ser Thr Tyr Lys Cys Asp His Tyr Asn Leu Lys		
20 25 30		
Thr His Ile Lys Pro Leu Lys Cys Ser Ser Leu Arg Leu Thr		
35 40 45		
Val Gly Thr Gly Leu Phe Ile Ala Leu His Ser Lys Ile Ser Pro		
50 55 60		
Glu Ser Arg Ile Gln Thr Val Gln Cys Glu Val Asp Ser Tyr Gln		
65 70 75		
Thr Asp Gln Ile Thr Phe Ala Lys Ser Gly Gly Ile Pro Arg Tyr		
80 85 90		
Ile Gly Val Leu Ile Leu Pro Asp Cys Val Tyr Leu Phe Gly Ala		
95 100 105		
Ile Leu Gly Ala Phe Val Ala Ala Val Met Asn Val Tyr Ile Pro		
110 115 120		
Leu Tyr Leu Gly Asp Phe Val Ser Ser Leu Ser Arg Cys Val Val		
125 130 135		
Thr His Glu Gly Phe Val Ser Ala Val Tyr Val Pro Thr Leu Arg		
140 145 150		
Leu Cys Ser Ser Tyr Leu Leu Gln Ser Leu Ser Thr Phe Leu Tyr		
155 160 165		
Ile Gly Leu Leu Gly Ser Val Gly Glu Arg Met Ala Arg Arg Met		
170 175 180		

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Arg	Ile	Gln	Leu	Phe	Arg	Lys	Leu	Val	Tyr	Gln	Asp	Val	Ala	Tyr	
				185					190					195	
Phe	Asp	Val	His	Ser	Ser	Gly	Lys	Leu	Val	Glu	Ile	Ile	Gly	Ser	
				200					205					210	
Asp	Val	Gln	Asn	Phe	Lys	Ser	Ser	Phe	Lys	Gln	Cys	Ile	Ser	Gln	
				215					220					225	
Gly	Leu	Arg	Asn	Gly	Ile	Gln	Val	Val	Gly	Ser	Val	Phe	Ala	Leu	
				230					235					240	
Leu	Ser	Ile	Ser	Pro	Thr	Leu	Thr	Ala	Ala	Leu	Ile	Gly	Cys	Leu	
				245					250					255	
Pro	Cys	Val	Phe	Leu	Ile	Gly	Ser	Leu	Met	Gly	Thr	Glu	Leu	Arg	
				260					265					270	
His	Ile	Ser	Arg	Glu	Val	Gln	Ser	Gln	Asn	Ser	Leu	Phe	Ala	Ser	
				275					280					285	
Leu	Ile	Asp	Glu	Ala	Phe	Ser	His	Ile	Arg	Thr	Val	Lys	Ser	Leu	
				290					295					300	
Ala	Met	Glu	Asp	Phe	Leu	Ile	Asn	Lys	Ile	Asn	Tyr	Asn	Val	Asp	
				305					310					315	
Lys	Ala	Lys	Met	Leu	Ser	Glu	Lys	Leu	Ser	Phe	Gly	Ile	Gly	Ser	
				320					325					330	
Phe	Gln	Gly	Leu	Ser	Asn	Leu	Thr	Leu	Asn	Gly	Val	Val	Leu	Gly	
				335					340					345	
Val	Leu	Tyr	Val	Gly	Gly	His	Leu	Met	Ser	Arg	Gly	Glu	Leu	Asp	
				350					355					360	
Ala	Gly	His	Leu	Met	Ser	Phe	Leu	Ala	Thr	Thr	Gln	Thr	Leu	Gln	
				365					370					375	
Arg	Ser	Leu	Thr	Gln	Leu	Ser	Leu	Leu	Tyr	Gly	Gln	Val	Val	Arg	
				380					385					390	
Gly	Tyr	Thr	Ala	Leu	Lys	Arg	Ile	His	Asp	Ile	Leu	Ala	Leu	Pro	
				395					400					405	
Ser	Gly	Ile	Gly	Ser	Ile	Pro	Ser	Ser	Ser	Ser	Ser	Leu	Val	Val	
				410					415					420	
Ser	Lys	Gln	His	Val	Asn	Asn	Ile	Lys	Glu	Leu	Pro	Ser	Ser	Ser	
				425					430					435	
Ile	Tyr	Ser	Ala	Pro	Ser	Ile	Glu	Phe	Ser	Asp	Val	Lys	Phe	Ala	
				440					445					450	
Tyr	Pro	Asn	Arg	Pro	Glu	Thr	Ile	Val	Leu	Asn	Glu	Leu	Ser	Met	
				455					460					465	
Phe	Leu	Pro	Gly	Gly	Lys	Val	Ile	Ala	Leu	Val	Gly	Gln	Ser	Gly	
				470					475					480	
Ala	Gly	Lys	Ser	Thr	Val	Val	Ser	Leu	Leu	Glu	Arg	Phe	Tyr	Asp	
				485					490					495	
Pro	Ile	Ser	Gly	Glu	Ile	Leu	Leu	Asn	Gly	Asp	Lys	Leu	Thr	Asn	
				500					505					510	
Phe	Asn	Val	Asn	Tyr	Leu	Arg	Ser	Lys	Leu	Ile	Gly	Tyr	Ile	Ser	
				515					520					525	
Gln	Glu	Pro	Gln	Ile	Phe	Asn	Ala	Ser	Ile	Arg	Glu	Asn	Ile	Arg	
				530					535					540	
Phe	Gly	Arg	Phe	Asp	Ala	Thr	Asp	Glu	Glu	Val	Glu	Glu	Ala	Ala	
				545					550					555	
Lys	Leu	Ala	Tyr	Ala	His	Asp	Phe	Ile	Ser	Asn	Asp	Leu	Pro	Tyr	
				560					565					570	
Gly	Tyr	Asp	Thr	Leu	Val	Gly	Gln	Gly	Thr	Gly	Thr	Ile	Ala	Gly	
				575					580					585	

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Leu	Ser	Gly	Gly	Gln	Arg	Gln	Arg	Ile	Ala	Ile	Ala	Arg	Ile	Leu
				590					595					600
Leu	Lys	Asn	Ala	Pro	Ile	Leu	Leu	Met	Asp	Glu	Ala	Thr	Ser	Ala
				605					610					615
Leu	Asp	Thr	Glu	Ser	Glu	Ala	Lys	Val	Gln	Asn	Ala	Leu	Asn	Asn
				620					625					630
Ala	Met	Lys	Gly	Arg	Thr	Val	Leu	Ile	Ile	Ala	His	Arg	Leu	Ser
				635					640					645
Thr	Val	Arg	Lys	Ala	Asp	Leu	Ile	Leu	Val	Met	Ser	Lys	Gly	Gln
				650					655					660
Ile	Val	Glu	Lys	Gly	Thr	His	Ser	Glu	Leu	Met	Ala	Asn	His	Gly
				665					670					675
Tyr	Tyr	Tyr	Asn	Leu	Val	Gln	Arg	Gln	Glu	Gly	Cys	Asp	Val	Phe
				680					685					690

Asp

<210> 37

<211> 634

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g3015617

<400> 37

Met	Thr	Val	Ala	Ser	Thr	Ala	Ala	Pro	Ser	Tyr	Thr	Thr	Ser	Asp
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Thr	Asn	Arg	Val	Ile	Ser	Thr	Phe	Ser	Val	Val	Asp	Tyr	Val	Val
				20					25					30
Phe	Gly	Leu	Leu	Leu	Val	Leu	Ser	Leu	Val	Ile	Gly	Leu	Tyr	His
				35					40					45
Ala	Cys	Arg	Gly	Trp	Gly	Arg	His	Thr	Val	Gly	Glu	Leu	Leu	Met
				50					55					60
Ala	Asp	Arg	Lys	Met	Gly	Cys	Leu	Pro	Val	Ala	Leu	Ser	Leu	Leu
				65					70					75
Ala	Thr	Phe	Gln	Ser	Ala	Val	Ala	Ile	Leu	Gly	Gly	Pro	Ala	Glu
				80					85					90
Ile	Tyr	Arg	Phe	Gly	Thr	Gln	Tyr	Trp	Phe	Leu	Gly	Cys	Ser	Tyr
				95					100					105
Phe	Leu	Gly	Leu	Leu	Ile	Pro	Ala	His	Ile	Phe	Ile	Pro	Val	Phe
				110					115					120
Tyr	Arg	Leu	His	Leu	Thr	Ser	Ala	Tyr	Glu	Tyr	Leu	Glu	Leu	Arg
				125					130					135
Phe	Asn	Lys	Ala	Val	Arg	Ile	Cys	Gly	Thr	Val	Thr	Phe	Ile	Phe
				140					145					150
Gln	Met	Val	Val	Tyr	Met	Gly	Val	Ala	Leu	Tyr	Ala	Pro	Ser	Leu
				155					160					165
Ala	Leu	Asn	Ala	Val	Thr	Gly	Phe	Asp	Leu	Trp	Leu	Ser	Val	Leu
				170					175					180
Ala	Leu	Gly	Ile	Val	Cys	Asn	Ile	Tyr	Thr	Ala	Leu	Gly	Gly	Leu
				185					190					195
Lys	Ala	Val	Ile	Trp	Thr	Asp	Val	Phe	Gln	Thr	Leu	Ile	Met	Phe

	200		205		210
Leu Gly Gln Leu	Val Val Ile Ile Val	Gly Ala Ala Lys Val	Gly		
	215		220		225
Gly Leu Gly His	Val Trp Ala Val Ala	Ser Gln His Gly Leu	Ile		
	230		235		240
Ser Gly Ile Glu	Leu Asp Pro Asp Pro	Phe Val Arg His Thr	Phe		
	245		250		255
Trp Thr Leu Ala	Phe Gly Gly Val Phe	Met Met Leu Ser Leu	Tyr		
	260		265		270
Gly Val Asn Gln	Ala Gln Val Gln Arg	Tyr Leu Ser Ser His	Ser		
	275		280		285
Glu Lys Ala Ala	Val Leu Ser Cys Tyr	Ala Val Phe Pro Cys	Gln		
	290		295		300
Gln Val Ala Leu	Cys Met Ser Cys Leu	Ile Gly Leu Val Met	Phe		
	305		310		315
Ala Tyr Tyr Lys	Lys Tyr Ser Met Ser	Pro Gln Gln Glu Gln	Ala		
	320		325		330
Ala Pro Asp Gln	Leu Val Leu Tyr Phe	Val Met Asp Leu Leu	Lys		
	335		340		345
Asp Met Pro Gly	Leu Pro Gly Leu Phe	Val Ala Cys Leu Phe	Ser		
	350		355		360
Gly Ser Leu Ser	Thr Ile Ser Ser Ala	Phe Asn Ser Leu Ala	Thr		
	365		370		375
Val Thr Met Glu	Asp Leu Ile Gln Pro	Trp Phe Pro Gln Leu	Thr		
	380		385		390
Glu Thr Arg Ala	Ile Met Leu Ser Arg	Ser Leu Ala Phe Ala	Tyr		
	395		400		405
Gly Leu Val Cys	Leu Gly Met Ala Tyr	Val Ser Ser His Leu	Gly		
	410		415		420
Ser Val Leu Gln	Ala Ala Leu Ser Ile	Phe Gly Met Val Gly	Gly		
	425		430		435
Pro Leu Leu Gly	Leu Phe Cys Leu Gly	Met Phe Phe Pro Cys	Ala		
	440		445		450
Asn Pro Leu Gly	Ala Ile Val Gly Leu	Leu Thr Gly Leu Thr	Met		
	455		460		465
Ala Phe Trp Ile	Gly Ile Gly Ser Ile	Val Ser Arg Met Ser	Ser		
	470		475		480
Ala Ala Ala Ser	Pro Pro Leu Asn Gly	Ser Ser Ser Phe Leu	Pro		
	485		490		495
Ser Asn Leu Thr	Val Ala Thr Val Thr	Thr Leu Met Pro Ser	Thr		
	500		505		510
Leu Ser Lys Pro	Thr Gly Leu Gln Gln	Phe Tyr Ser Leu Ser	Tyr		
	515		520		525
Leu Trp Tyr Ser	Ala His Asn Ser Thr	Thr Val Ile Ala Val	Gly		
	530		535		540
Leu Ile Val Ser	Leu Leu Thr Gly Gly	Met Arg Gly Arg Ser	Leu		
	545		550		555
Asn Pro Gly Thr	Ile Tyr Pro Val Leu	Pro Lys Leu Leu Ala	Leu		
	560		565		570
Leu Pro Leu Ser	Cys Gln Lys Arg Leu	Cys Trp Arg Ser His	Asn		
	575		580		585
Gln Asp Ile Pro	Val Val Thr Asn Leu	Phe Pro Glu Lys Met	Gly		
	590		595		600
Asn Gly Ala Leu	Gln Asp Ser Arg Asp	Lys Glu Arg Met Ala	Glu		

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	605		610		615
Asp Gly Leu Val His Gln Pro Cys Ser		Pro Thr Tyr Ile Val Gln			
	620		625		630
Glu Thr Ser Leu					

<210> 38
 <211> 507
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g3639058

<400> 38

Met Ala Gly Ala Gly	Pro Lys Arg Arg	Ala Leu Ala Ala	Pro Ala
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Ala Glu Glu Lys Glu	Glu Ala Arg Glu	Lys Met Leu Ala Ala	Lys
	20	25	30
Ser Ala Asp Gly Ser	Ala Pro Ala Gly	Glu Gly Glu Gly	Val Thr
	35	40	45
Leu Gln Arg Asn Ile	Thr Leu Leu Asn	Gly Val Ala Ile Ile	Val
	50	55	60
Gly Thr Ile Ile Gly	Ser Gly Ile Phe	Val Thr Pro Thr	Gly Val
	65	70	75
Leu Lys Glu Ala Gly	Ser Pro Gly Leu	Ala Leu Val Val	Trp Ala
	80	85	90
Ala Cys Gly Val Phe	Ser Ile Val Gly	Ala Leu Cys Tyr	Ala Glu
	95	100	105
Leu Gly Thr Thr Ile	Ser Lys Ser Gly	Gly Asp Tyr Ala	Tyr Met
	110	115	120
Leu Glu Val Tyr Gly	Ser Leu Pro Ala	Phe Leu Lys Leu	Trp Ile
	125	130	135
Glu Leu Leu Ile Ile	Arg Pro Ser Ser	Gln Tyr Ile Val	Ala Leu
	140	145	150
Val Phe Ala Thr Tyr	Leu Leu Lys Pro	Leu Phe Pro Thr	Cys Pro
	155	160	165
Val Pro Glu Glu Ala	Ala Lys Leu Val	Ala Cys Leu Cys	Val Leu
	170	175	180
Leu Leu Thr Ala Val	Asn Cys Tyr Ser	Val Lys Ala Ala	Thr Arg
	185	190	195
Val Gln Asp Ala Phe	Ala Ala Ala Lys	Leu Leu Ala Leu	Ala Leu
	200	205	210
Ile Ile Leu Leu Gly	Phe Val Gln Ile	Gly Lys Gly Asp	Val Ser
	215	220	225
Asn Leu Asp Pro Lys	Phe Ser Phe Glu	Gly Thr Lys Leu	Asp Val
	230	235	240
Gly Asn Ile Val Leu	Ala Leu Tyr Ser	Gly Leu Phe Ala	Tyr Gly
	245	250	255
Gly Trp Asn Tyr Leu	Asn Phe Val Thr	Glu Glu Met Ile	Asn Pro
	260	265	270
Tyr Arg Asn Leu Pro	Leu Ala Ile Ile	Ile Ser Leu Pro	Ile Val
	275	280	285

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Thr	Leu	Val	Tyr	Val	Leu	Thr	Asn	Leu	Ala	Tyr	Phe	Thr	Thr	Leu	290	295	300
Ser	Thr	Glu	Gln	Met	Leu	Ser	Ser	Glu	Ala	Val	Ala	Val	Asp	Phe	305	310	315
Gly	Asn	Tyr	His	Leu	Gly	Val	Met	Ser	Trp	Ile	Ile	Pro	Val	Phe	320	325	330
Val	Gly	Leu	Ser	Cys	Phe	Gly	Ser	Val	Asn	Gly	Ser	Leu	Phe	Thr	335	340	345
Ser	Ser	Arg	Leu	Phe	Phe	Val	Gly	Ser	Arg	Glu	Gly	His	Leu	Pro	350	355	360
Ser	Ile	Leu	Ser	Met	Ile	His	Pro	Gln	Leu	Leu	Thr	Pro	Val	Pro	365	370	375
Ser	Leu	Val	Phe	Thr	Cys	Val	Met	Thr	Leu	Leu	Tyr	Ala	Phe	Ser	380	385	390
Lys	Asp	Ile	Phe	Ser	Val	Ile	Asn	Phe	Phe	Ser	Phe	Phe	Asn	Trp	395	400	405
Leu	Cys	Val	Ala	Leu	Ala	Ile	Ile	Gly	Met	Ile	Trp	Leu	Arg	His	410	415	420
Arg	Lys	Pro	Glu	Leu	Glu	Arg	Pro	Ile	Lys	Val	Asn	Leu	Ala	Leu	425	430	435
Pro	Val	Phe	Phe	Ile	Leu	Ala	Cys	Leu	Phe	Leu	Ile	Ala	Val	Ser	440	445	450
Phe	Trp	Lys	Thr	Pro	Val	Glu	Cys	Gly	Ile	Gly	Phe	Thr	Ile	Ile	455	460	465
Leu	Ser	Gly	Leu	Pro	Val	Tyr	Phe	Phe	Gly	Val	Trp	Trp	Lys	Asn	470	475	480
Lys	Pro	Lys	Trp	Leu	Leu	Gln	Gly	Ile	Phe	Ser	Thr	Thr	Val	Leu	485	490	495
Cys	Gln	Lys	Leu	Met	Gln	Val	Val	Pro	Gln	Glu	Thr				500	505	

<210> 39
 <211> 504
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g1840045

Met	Glu	Ala	Pro	Leu	Gln	Thr	Glu	Met	Val	Glu	Leu	Val	Pro	Asn	<400> 39
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Gly	Lys	His	Ser	Glu	Gly	Leu	Leu	Pro	Val	Ile	Thr	Pro	Met	Ala	
				20					25					30	
Gly	Asn	Gln	Arg	Val	Glu	Asp	Pro	Ala	Arg	Ser	Cys	Met	Glu	Gly	
				35					40					45	
Lys	Ser	Phe	Leu	Gln	Lys	Ser	Pro	Ser	Lys	Glu	Pro	His	Phe	Thr	
				50					55					60	
Asp	Phe	Glu	Gly	Lys	Thr	Ser	Phe	Gly	Met	Ser	Val	Phe	Asn	Leu	
				65					70					75	
Ser	Asn	Ala	Ile	Met	Gly	Ser	Gly	Ile	Leu	Gly	Leu	Ala	Tyr	Ala	
				80					85					90	
Met	Ala	Asn	Thr	Gly	Ile	Ile	Leu	Phe	Leu	Phe	Leu	Leu	Thr	Ala	

				95					100					105
Val	Ala	Leu	Leu	Ser	Ser	Tyr	Ser	Ile	His	Leu	Leu	Leu	Lys	Ser
				110					115					120
Ser	Gly	Val	Val	Gly	Ile	Arg	Ala	Tyr	Glu	Gln	Leu	Gly	Tyr	Arg
				125					130					135
Ala	Phe	Gly	Thr	Pro	Gly	Lys	Leu	Ala	Ala	Ala	Leu	Ala	Ile	Thr
				140					145					150
Leu	Gln	Asn	Ile	Gly	Ala	Met	Ser	Ser	Tyr	Leu	Tyr	Ile	Ile	Lys
				155					160					165
Ser	Glu	Leu	Pro	Leu	Val	Ile	Gln	Thr	Phe	Leu	Asn	Leu	Glu	Glu
				170					175					180
Lys	Thr	Ser	Asp	Trp	Tyr	Met	Asn	Gly	Asn	Tyr	Leu	Val	Ile	Leu
				185					190					195
Val	Ser	Val	Thr	Ile	Ile	Leu	Pro	Leu	Ala	Leu	Met	Arg	Gln	Leu
				200					205					210
Gly	Tyr	Leu	Gly	Tyr	Ser	Ser	Gly	Phe	Ser	Leu	Ser	Cys	Met	Val
				215					220					225
Phe	Phe	Leu	Ile	Ala	Val	Ile	Tyr	Lys	Lys	Phe	His	Val	Pro	Cys
				230					235					240
Pro	Leu	Pro	Pro	Asn	Phe	Asn	Asn	Thr	Thr	Gly	Asn	Phe	Ser	His
				245					250					255
Val	Glu	Ile	Val	Lys	Glu	Lys	Val	Gln	Leu	Gln	Val	Glu	Pro	Glu
				260					265					270
Ala	Ser	Ala	Phe	Cys	Thr	Pro	Ser	Tyr	Phe	Thr	Leu	Asn	Ser	Gln
				275					280					285
Thr	Ala	Tyr	Thr	Ile	Pro	Ile	Met	Ala	Phe	Ala	Phe	Val	Cys	His
				290					295					300
Pro	Glu	Val	Leu	Pro	Ile	Tyr	Thr	Glu	Leu	Lys	Asp	Pro	Ser	Lys
				305					310					315
Lys	Lys	Met	Gln	His	Ile	Ser	Asn	Leu	Ser	Ile	Ala	Val	Met	Tyr
				320					325					330
Ile	Met	Tyr	Phe	Leu	Ala	Ala	Leu	Phe	Gly	Tyr	Leu	Thr	Phe	Tyr
				335					340					345
Asn	Gly	Val	Glu	Ser	Glu	Leu	Leu	His	Thr	Tyr	Ser	Lys	Val	Asp
				350					355					360
Pro	Phe	Asp	Val	Leu	Ile	Leu	Cys	Val	Arg	Val	Ala	Val	Leu	Thr
				365					370					375
Ala	Val	Thr	Leu	Thr	Val	Pro	Ile	Val	Leu	Phe	Pro	Val	Arg	Arg
				380					385					390
Ala	Ile	Gln	Gln	Met	Leu	Phe	Pro	Asn	Gln	Glu	Phe	Ser	Trp	Leu
				395					400					405
Arg	His	Val	Leu	Ile	Ala	Val	Gly	Leu	Leu	Thr	Cys	Ile	Asn	Leu
				410					415					420
Leu	Val	Ile	Phe	Ala	Pro	Asn	Ile	Leu	Gly	Ile	Phe	Gly	Val	Ile
				425					430					435
Gly	Ala	Thr	Ser	Ala	Pro	Phe	Leu	Ile	Phe	Ile	Phe	Pro	Ala	Ile
				440					445					450
Phe	Tyr	Phe	Arg	Ile	Met	Pro	Thr	Glu	Lys	Glu	Pro	Ala	Arg	Ser
				455					460					465
Thr	Pro	Lys	Ile	Leu	Ala	Leu	Cys	Phe	Ala	Met	Leu	Gly	Phe	Leu
				470					475					480
Leu	Met	Thr	Met	Ser	Leu	Ser	Phe	Ile	Ile	Ile	Asp	Trp	Ala	Ser
				485					490					495
Gly	Thr	Ser	Arg	His	Gly	Gly	Asn	His						

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500

<210> 40

<211> 393

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g1526438

<400> 40

Met	Ala	Ala	Val	Gly	Ala	Gly	Gly	Ser	Thr	Ala	Ala	Pro	Gly	Pro
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Gly	Ala	Val	Ser	Ala	Gly	Ala	Leu	Glu	Pro	Gly	Thr	Ala	Ser	Ala
				20					25					30
Ala	His	Arg	Arg	Leu	Lys	Tyr	Ile	Ser	Leu	Ala	Val	Leu	Val	Val
				35					40					45
Gln	Asn	Ala	Ser	Leu	Ile	Leu	Ser	Ile	Arg	Tyr	Ala	Arg	Thr	Leu
				50					55					60
Pro	Gly	Asp	Arg	Phe	Phe	Ala	Thr	Thr	Ala	Val	Val	Met	Ala	Glu
				65					70					75
Val	Leu	Lys	Gly	Leu	Thr	Cys	Leu	Leu	Leu	Leu	Phe	Ala	Gln	Lys
				80					85					90
Arg	Gly	Asn	Val	Lys	His	Leu	Val	Leu	Phe	Leu	His	Glu	Ala	Val
				95					100					105
Leu	Val	Gln	Tyr	Val	Asp	Thr	Leu	Lys	Leu	Ala	Val	Pro	Ser	Leu
				110					115					120
Ile	Tyr	Thr	Leu	Gln	Asn	Asn	Leu	Gln	Tyr	Val	Ala	Ile	Ser	Asn
				125					130					135
Leu	Pro	Ala	Ala	Thr	Phe	Gln	Val	Thr	Tyr	Gln	Leu	Lys	Ile	Leu
				140					145					150
Thr	Thr	Ala	Leu	Phe	Ser	Val	Leu	Met	Leu	Asn	Arg	Ser	Leu	Ser
				155					160					165
Arg	Leu	Gln	Trp	Ala	Ser	Leu	Leu	Leu	Leu	Phe	Thr	Gly	Val	Ala
				170					175					180
Ile	Val	Gln	Ala	Gln	Gln	Ala	Gly	Gly	Gly	Gly	Pro	Arg	Pro	Leu
				185					190					195
Asp	Gln	Asn	Pro	Gly	Ala	Gly	Leu	Ala	Ala	Val	Val	Ala	Ser	Cys
				200					205					210
Leu	Ser	Ser	Gly	Phe	Ala	Gly	Val	Tyr	Phe	Glu	Lys	Ile	Leu	Lys
				215					220					225
Gly	Ser	Ser	Gly	Ser	Val	Trp	Leu	Arg	Asn	Leu	Gln	Leu	Gly	Leu
				230					235					240
Phe	Gly	Thr	Ala	Leu	Gly	Leu	Val	Gly	Leu	Trp	Trp	Ala	Glu	Gly
				245					250					255
Thr	Ala	Val	Ala	Thr	Arg	Gly	Phe	Phe	Phe	Gly	Tyr	Thr	Pro	Ala
				260					265					270
Val	Trp	Gly	Val	Val	Leu	Asn	Gln	Ala	Phe	Gly	Gly	Leu	Leu	Val
				275					280					285
Ala	Val	Val	Val	Lys	Tyr	Ala	Asp	Asn	Ile	Leu	Lys	Gly	Phe	Ala
				290					295					300
Thr	Ser	Leu	Ser	Ile	Val	Leu	Ser	Thr	Val	Ala	Ser	Ile	Arg	Leu
				305					310					315

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Phe Gly Phe His Val Asp Pro Leu Phe Ala Leu Gly Ala Gly Leu	320	325	330
Val Ile Gly Ala Val Tyr Leu Tyr Ser Leu Pro Arg Gly Ala Ala	335	340	345
Lys Ala Ile Ala Ser Ala Ser Ala Ser Ala Ser Gly Pro Cys Val	350	355	360
His Gln Gln Pro Pro Gly Gln Pro Pro Pro Pro Gln Leu Ser Ser	365	370	375
His Arg Gly Asp Leu Ile Thr Glu Pro Phe Leu Pro Lys Ser Val	380	385	390
Leu Val Lys			

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 <212> PRT
 <213> Homo sapiens

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 <221> misc_feature
 <223> GenBank ID No: g3335175

<400> 41

His Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr	1	5	10	15
Pro Thr Leu Gln Gly Leu Ser Phe Thr Val Arg Pro Gly Glu Leu	20	25	30	
Leu Ala Val Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu	35	40	45	
Ser Ala Val Leu Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser	50	55	60	
Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln Pro Trp Val Phe	65	70	75	
Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys Lys Tyr Glu	80	85	90	
Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu Lys Lys	95	100	105	
Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly Asp	110	115	120	
Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu	125	130	135	
Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp	140	145	150	
Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu	155	160	165	
Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val	170	175	180	
Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile	185	190	195	
Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe	200	205	210	
Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn	215	220	225	
Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg				

	230		235		240
Asn Arg Thr Phe	Ser Glu Ser Ser Val	Trp Ser Gln Gln Ser	Ser		
	245		250		255
Arg Pro Ser Leu	Lys Asp Gly Ala Leu	Glu Ser Gln Asp Thr	Glu		
	260		265		270
Asn Val Pro Val	Thr Leu Ser Glu Glu	Asn Arg Ser Glu Gly	Lys		
	275		280		285
Val Gly Phe Gln	Ala Tyr Lys Asn Tyr	Phe Arg Ala Gly Ala	His		
	290		295		300
Trp Ile Val Phe	Ile Phe Leu Ile Leu	Leu Asn Thr Ala Ala	Gln		
	305		310		315
Val Ala Tyr Val	Leu Gln Asp Trp Trp	Leu Ser Tyr Trp Ala	Asn		
	320		325		330
Lys Gln Ser Met	Leu Asn Val Thr Val	Asn Gly Gly Gly Asn	Val		
	335		340		345
Thr Glu Lys Leu	Asp Leu Asn Trp Tyr	Leu Gly Ile Tyr Ser	Gly		
	350		355		360
Leu Thr Val Ala	Thr Val Leu Phe Gly	Ile Ala Arg Ser Leu	Leu		
	365		370		375
Val Phe Tyr Val	Leu Val Asn Ser Ser	Gln Thr Leu His Asn	Lys		
	380		385		390
Met Phe Glu Ser	Ile Leu Lys Ala Pro	Val Leu Phe Phe Asp	Arg		
	395		400		405
Asn Pro Ile Gly	Arg Ile Leu Asn Arg	Phe Ser Lys Asp Ile	Gly		
	410		415		420
His Leu Asp Asp	Leu Leu Pro Leu Thr	Phe Leu Asp Phe Ile	Gln		
	425		430		435
Thr Leu Leu Gln	Val Val Gly Val Val	Ser Val Ala Val Ala	Val		
	440		445		450
Ile Pro Trp Ile	Ala Ile Pro Leu Val	Pro Leu Gly Ile Ile	Phe		
	455		460		465
Ile Phe Leu Arg	Arg Tyr Phe Leu Glu	Thr Ser Arg Asp Val	Lys		
	470		475		480
Arg Leu Glu Ser	Thr Thr Arg Ser Pro	Val Phe Ser His Leu	Ser		
	485		490		495
Ser Ser Leu Gln	Gly Leu Trp Thr Ile	Arg Ala Tyr Lys Ala	Glu		
	500		505		510
Glu Arg Cys Gln	Glu Leu Phe Asp Ala	His Gln Asp Leu His	Ser		
	515		520		525
Glu Ala Trp Phe	Leu Phe Leu Thr Thr	Ser Arg Trp Phe Ala	Val		
	530		535		540
Arg Leu Asp Ala	Ile Cys Ala Met Phe	Val Ile Ile Val Ala	Phe		
	545		550		555
Gly Ser Leu Ile	Leu Ala Lys Thr Leu	Asp Ala Gly Gln Val	Gly		
	560		565		570
Leu Ala Leu Ser	Tyr Ala Leu Thr Leu	Met Gly Met Phe Gln	Trp		
	575		580		585
Cys Val Arg Gln	Ser Ala Glu Val Glu	Asn Met Met Ile Ser	Val		
	590		595		600
Glu Arg Val Ile	Glu Tyr Thr Asp Leu	Glu Lys Glu Ala Pro	Trp		
	605		610		615
Glu Tyr Gln Lys	Arg Pro Pro Pro Ala	Trp Pro His Glu Gly	Val		
	620		625		630
Ile Ile Phe Asp	Asn Val Asn Phe Met	Tyr Ser Pro Gly Gly	Pro		

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Leu Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys	635	640	645
	650	655	660
Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile	665	670	675
Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile	680	685	690
Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys	695	700	705
Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr	710	715	720
Met Arg Lys Asn Leu Asp Pro Phe Lys Glu His Thr Asp Glu Glu	725	730	735
Leu Trp Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu	740	745	750
Asp Leu Pro Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser	755	760	765
Asn Phe Ser Val Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala	770	775	780
Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala	785	790	795
Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln Lys Lys Ile Arg	800	805	810
Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala His Arg Leu	815	820	825
Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp Ser Gly	830	835	840
Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn Lys	845	850	855
Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu	860	865	870
Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Val Ile Leu Gln Lys	875	880	885
Lys Leu Ser Thr Tyr Trp Ser His	890		

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<211> 453

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g1279457

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Met Ala Leu Arg Gly Phe Cys Ser Arg Trp Leu Arg Pro Ala Leu			
1	5	10	15
Ala Ile Gly Leu Phe Ala Ser Met Ala Ala Val Leu Leu Gly Gly			
	20	25	30
Ala Arg Ala Ser Arg Leu Leu Phe Gln Arg Leu Leu Trp Asp Val			
	35	40	45
Val Arg Ser Pro Ile Ser Phe Phe Glu Arg Thr Pro Ile Gly His			
	50	55	60

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Leu	Leu	Asn	Arg	Phe	Ser	Lys	Glu	Thr	Asp	Thr	Val	Asp	Val	Asp	
				65					70					75	
Ile	Pro	Asp	Lys	Leu	Arg	Ser	Leu	Leu	Met	Tyr	Ala	Phe	Gly	Leu	
				80					85					90	
Leu	Glu	Val	Ser	Leu	Val	Val	Glu	Trp	Pro	Thr	Pro	Leu	Pro	Leu	
				95					100					105	
Trp	Pro	Ser	Cys	His	Cys	Phe	Ser	Ser	Thr	Leu	Gly	Phe	Arg	Trp	
				110					115					120	
Leu	Ala	Ala	Asn	Val	Glu	Leu	Leu	Gly	Asn	Gly	Leu	Val	Phe	Ala	
				125					130					135	
Ala	Ala	Thr	Cys	Ala	Val	Leu	Ser	Lys	Ala	His	Leu	Ser	Ala	Gly	
				140					145					150	
Leu	Val	Gly	Phe	Ser	Val	Ser	Ala	Ala	Leu	Gln	Val	Thr	Gln	Thr	
				155					160					165	
Leu	Gln	Trp	Val	Val	Arg	Asn	Trp	Thr	Asp	Leu	Glu	Asn	Ser	Ile	
				170					175					180	
Val	Ser	Val	Glu	Arg	Met	Gln	Asp	Tyr	Ala	Trp	Thr	Pro	Lys	Glu	
				185					190					195	
Ala	Pro	Trp	Arg	Leu	Pro	Thr	Cys	Ala	Ala	Gln	Pro	Pro	Trp	Pro	
				200					205					210	
Gln	Gly	Gly	Gln	Ile	Glu	Phe	Arg	Asp	Phe	Gly	Leu	Arg	Tyr	Arg	
				215					220					225	
Pro	Glu	Leu	Pro	Leu	Ala	Val	Gln	Gly	Val	Ser	Phe	Lys	Ile	His	
				230					235					240	
Ala	Gly	Glu	Lys	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	
				245					250					255	
Ser	Ser	Leu	Ala	Ser	Gly	Leu	Leu	Arg	Leu	Gln	Glu	Ala	Ala	Glu	
				260					265					270	
Gly	Gly	Ile	Trp	Ile	Asp	Gly	Val	Pro	Ile	Ala	His	Val	Gly	Val	
				275					280					285	
His	Thr	Leu	Arg	Ser	Arg	Ile	Ser	Ile	Ile	Pro	Gln	Asp	Pro	Ile	
				290					295					300	
Leu	Phe	Pro	Gly	Ser	Leu	Arg	Met	Asn	Leu	Asp	Leu	Leu	Gln	Glu	
				305					310					315	
His	Ser	Asp	Glu	Ala	Ile	Trp	Ala	Ala	Leu	Glu	Thr	Val	Gln	Leu	
				320					325					330	
Lys	Ala	Leu	Val	Ala	Cys	Leu	Pro	Gly	Gln	Leu	Gln	Tyr	Lys	Cys	
				335					340					345	
Ala	Asp	Arg	Gly	Glu	Asp	Leu	Ser	Val	Gly	Gln	Lys	Gln	Leu	Leu	
				350					355					360	
Cys	Leu	Ala	Arg	Ala	Leu	Leu	Arg	Lys	Thr	Gln	Ile	Leu	Ile	Leu	
				365					370					375	
Asp	Glu	Ala	Thr	Ala	Ala	Val	Asp	Pro	Gly	Thr	Glu	Leu	Gln	Met	
				380					385					390	
Gln	Ala	Met	Leu	Gly	Ser	Trp	Phe	Ala	Gln	Cys	Thr	Val	Leu	Leu	
				395					400					405	
Ile	Ala	His	Arg	Leu	Arg	Ser	Val	Met	Asp	Cys	Ala	Arg	Val	Leu	
				410					415					420	
Val	Met	Asp	Lys	Gly	Gln	Val	Ala	Glu	Ser	Gly	Ser	Pro	Ala	Gln	
				425					430					435	
Leu	Leu	Ala	Gln	Lys	Gly	Leu	Phe	Tyr	Arg	Leu	Ala	Gln	Glu	Ser	
				440					445					450	
Gly	Leu	Val													